Snowy Monaro Regional Council

Financial Plans for

Water Supply and Sewerage







January 2019

Snowy Monaro Regional Council

Services	Council provides the essential water and sewerage services to some
56111665	8,500 properties in the Snowy Mountains and Monaro regions of NSW.
Charter	Council's Local Government Charter is detailed here.
	https://www.snowymonaro.nsw.gov.au/191/Councils-Charter
	Some clauses that are specifically relevant to these financial plans are:
	 To provide [] adequate, equitable and appropriate services and facilities for the community and to ensure that those
	services are managed efficiently and effectively
	 To properly manage, develop, protect, restore, enhance and conserve the environment [].
	 To have regard to the long term and cumulative effects of its decisions
	To bear in mind that it is the custodian and trustee of public
	assets and to effectively account for and manage the assets for which it is responsible
	 To raise funds for local purpose by the fair imposition of rates, charges and fees, by income earned from investments and, when appropriate, by borrowings and grants
	 To ensure that, in the exercise of its regulatory functions, it acts consistently and without bias, particularly where an activity of Council is affected
	(Source: Council's Web Site, 8Jan18).



Snowy Monaro Regional Council

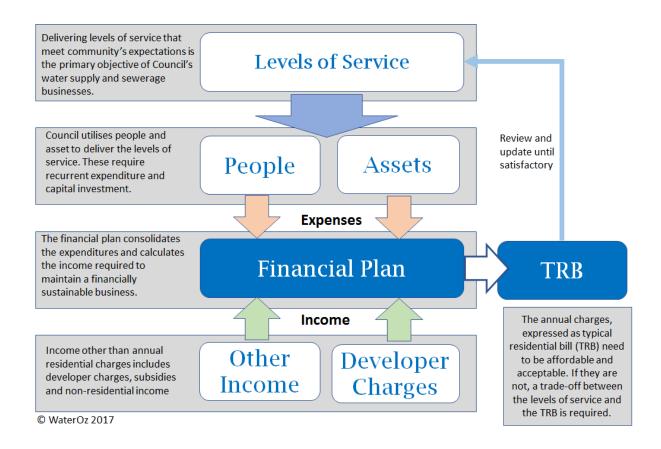
Financial Plan for Water Supply and Sewerage

Document Control

Revision	2	24 January 2019		
Author	GAZ			
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Document	W1163_SMRC_Finplan_WS&S_2019_Rev2			

This revision supersedes previous versions of this document.

The financial planning process is described in the following chart



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1 Introduction

Snowy Monaro Regional Council (SMRC) is the local water utility responsible for delivering water supply and sewerage services in its Local Government Area. SMRC was created in May 2016 by the merger of the former Cooma-Monaro Shire Council, Snowy River Shire Council and Bombala Council.

These financial plans are components of SMRC's water supply and sewerage planning strategy, part of the NSW Government best-practice management framework for local water utilities.

This report contains two 30-year financial plans, one for the water supply fund and one for the sewerage fund, commencing July 2018. The first year of the financial plans is 2018/19.

The NSW Financial Planning Model (FINMOD) was used for preparing the plans, using input data provided by SMRC.

The plans set out the long term (30 years) price path SMRC will need to levy to fund recurrent costs and capital investment required for delivering the levels of service set out in Council's strategic business plan. The price path is provided as typical residential bill (TRB).

The projections in these financial plans, including the TRB, are in 2018/19 dollars. They need to be adjusted annually for movements in the consumer price index (CPI).

Local water utilities are required to review and update their financial plans annually.

Typical Residential Bill

Water supply TRB: the bill paid by a residential customer who uses the average residential water consumption and is not a pensioner.

Sewerage TRB: the annual sewerage bill paid by a residential customer who is not a pensioner.

2 SUMMARY AND RECOMMENDATION

2.1 Water Supply

The long-term financial modelling of the water supply scheme included five cases (scenarios), with different capital works programs, operation maintenance and administration (OMA) costs and growth. A summary of the cases is shown in Table 1. For further explanation of the data in the table refer to Section 5.2 on page 18.

The current TRB is \$720. As shown in Table 1, with the exception of Case 4, all cases can be funded without the need to increase the TRB above CPI.

Table 1: Water Supply Modelling Summary

Case	TRB (+CPI)	Jindabyne WFP	Villages	Grants \$M	30-yr Capex \$M	Growth New ET pa
Base	\$720	No	No	15.2	118.0	50
2	\$720	Yes	No	25.2	138.0	50
3	\$720	Yes	No	35.2	153.8	50
4	\$740	Yes	Yes	33.1	153.8	50
5	\$740-760	Yes	Yes	33.1	153.8	40

2.2 Sewerage

The long-term financial modelling of the sewerage scheme included five cases, with different capital works programs, OMA costs and growth. A summary of the cases is shown in Table 2. For further explanation of the data in the table refer to 6.2 on page 26.

The current TRB is \$900. Shown in Table 2, some cases require a small increase

Table 2: Sewerage Modelling Summary

Case	TRB (+CPI)	Villages	Grants \$M	30-yr Capex \$M	New ET pa
Base	\$900/920*	No	7.0	98.7	50
2	\$900	No	14.0	98.7	50
3	\$900	Bredbo	14.9	106.2	50
4	\$940	Yes	23.5	123.4	50
5	\$960	Yes	23.5	123.4	40

^{*} For the base case, a TRB of \$900 involves high borrowing and unacceptable risk. An increase to \$920 is recommended. Refer to Section 6.5 on page 28 for discussion

2.3 Review

The capital works program and financial plans should be reviewed annually. This is a requirement of the best-practice management framework, and is important for Council to ensure that early action can be taken if the financial performance of the water supply and/or sewerage businesses varies from the projections.

3 SUMMARY OF DATA INPUT

3.1 Historical Financial Statements

Financial statements (Special Schedules 3 to 6) were provided for 2017/18 for the water supply and the sewerage funds. The balance sheet is the starting point of the financial projections, and the values in the income statement are the default values for forecasting line items. Some of the default values were overridden, as described in this report. The financial statements are included in Appendix A.

3.2 Financial Data

The financial data parameters used in the model are summarised in Table 1. The values used in the plans were nominated by Council.

The values recommended by DoI Water are also shown. However, the DoI Water values have not been updated for a number of years, and they may not reflect the prevailing low interest environment.

Table 3: Financial Data

Parameter	DPI Water	Used in these Plans (Base Case)
Inflation rate	2.5% p.a.	2.5% p.a.
Borrowing interest rate	6.5% p.a.	3.9% p.a.
Investment interest rate	5.5% p.a.	2.7% p.a.
Term of new loans	20 years	20 years
Average life of new system assets	70 years	70 years

Source: 2018 financial plan.

3.3 Assessments

3.3.1 Starting Number of Assessments

The number of assessments at the commencement of the plans (July 2018) was taken as shown in Table 4.

Table 4: Number of Assessments

Service	Residential	Residential		
Service	ı	Vacant		
Water Supply	7,658	926	8,564	323
Sewerage	6,937	755	7,619	411

Source: SMRC Special Schedules 3 and 5 for 2017/18.

Potential issues relating to the number of assessments:

1. The water supply assessments in 2018 are lower than the number of assessments in 2017. The discrepancies are shown in Table 5.

Table 5: Number of Assessments discrepancy

Service	June 2017 total assessments	New ETs in 2017/18	June 2018 expected assessments ¹	June 2018 total assessments	Discrepancy
Water Supply	8,610	63	8,673	8,564	-109
Sewerage	7,619	63	7,682	7,692	10

¹Assuming that 1 new ET (equivalent tenement) = 1 assessment

- 2. The number of sewerage vacant assessments is likely to be an error, based on the following observations:
 - a. There is a significant increase in the number of sewerage vacant lots in the last year, from 321 in June 2017 to 411 in June 2018.
 - b. There are more sewerage vacant assessments than water supply vacant assessments, 411 and 323 for the sewerage and the water supply respectively.

These issues indicate that there is likely error in the data. It is possible that the error occurred in the previous year and this has been corrected in the 2017/18 special schedules.

3.3.2 Growth Projections

Council requested that the financial plan be modelled with growth of 50 ET pa (source: email dated 23Jan19).

On this basis, the annual growth for the base case was taken as:

☐ Residential assessments: 48 (=22 ET)

□ Non-residential assessments: 2 (=2 ET)

These growth projections are lower than the historical growth, as shown in Table 6.

Table 6: Annual Growth (ET)

		Proposed for		
Service	2016/17	2017/18	2018/19 (half a year only)	these financial plans
Water Supply	37	63	50	50
Sewerage	37	63	51	50

Modelling low growth projections is a worst-case scenario. Growth in excess of the expectations would have a positive impact on the sewerage fund financial position. Both the water supply and sewerage funds were modelled with a low growth case (40 new ET pa).

3.3.3 Backlog Assessments

Backlog is the provision of water supply and/or sewerage services to existing development that is not currently serviced. Backlog assessments are added as paying customers, but unlike growth assessments, backlog assessments do not pay developer charges.

The backlog assessments are shown in Table 7. It was assumed that customers in the backlog areas would commence paying charges when the project is under construction. Investment in backlog projects were not included in all cases. For the cases that include provision of services to backlog areas refer to Table 16 and Table 17.

Table 7: Backlog Assessments (Villages)

	Water	Supply	Sewerage		
Village	Year ¹	No. ²	Year ¹	No. ²	
Bredbo	-	-	2031/32	135	
Michelago	2026/27	66	2026/27	66	
Numeralla	2029/30	46	2034/35	46	

Source: ¹Capital Works Programs. ²2018 Financial Plan.

3.4 Developer Charge

For assessing the developer charges for new development, it was assumed that each new residential and non-residential assessment is 1 ET. The developer charges used in FINMOD are shown in Table 8. These were assumed to continue for the entire planning period, with annual CPI adjustments.

Table 8: Developer Charge per ET

Developer Charge per ET	Water Supply	Sewerage
2016/17	\$5,571	\$6,460

Sources: calculated from income and ETs in 2017/18, as advised by SMRC in email 8Jan19.

3.5 Sanity Check of Depreciation of System Assets Depreciation

Table 9 shows the calculated asset lives based on their current values and depreciation. The average lives of system assets for both water supply and sewerage assets are different to the standard recommended by DoI Water of 70 years.

There is no major issue with the data presented in Table 9, but it is recommended that Council review whether the depreciation values are appropriate. High depreciation values have negative impact on the operating results.

The depreciation does not affect the TRB calculation which is based on cash transactions.

Table 9: System Asset Values

Item	Water Supply	Sewerage
Current Replacement Cost (A)	\$201,185 K	\$140,530 K

Item	Water Supply	Sewerage
Written Down Current Cost (B)	\$91,687 K	\$72,462 K
2017/18 Depreciation (C)	\$3,283 K	\$2,342 K
Estimated Average Life of Assets (years) (A/C)	61	60
Estimated Remaining Life of Assets (years) (B/C)	28	31

3.6 Plant and Equipment

3.6.1 Depreciation

The values of existing plant and equipment at the commencement of the planning period (July 2018), and the depreciation in 2017/18 are shown in Table 10.

Table 10: Plant and equipment

Frank	Written Dowr	n Cost (\$'000)	Annual	Remaining Life (years)	
Fund	June 17	June 18	Depreciation (\$'000)		
Water Supply	533	3,251	65	50	
Sewerage	446	1,897	61	31	

DoI Water recommends depreciating existing plant and equipment over seven years. It appears that the WDC of the plant and equipment is in error, as it jumped significantly in the last year as shown in Table 10. The depreciation does not affect the results of the financial plan.

3.6.2 Plant and Equipment Expenditure

Council provided plant and equipment expenditure schedules for the next 10 years. The average annual value of the first 10 years was used for the subsequent years.

3.6.3 Plant and Equipment Sales

Council provided expected income from plant and equipment expenditure sales for the next 10 years. The average annual value of the first 10 years was used for the subsequent years.

3.7 Existing Loans

The existing loans are shown in Table 11.

Table 11: Existing Loans (\$'000)

Fund	Balance as of 30 June 2018
Water Supply	349
Sewerage	1,428

Source: Special Schedule 4 and 6.

Loan payment schedule was provided for the water supply, showing that the loan will be paid by 2021/22.

Council advised that the balance of the sewerage loan was paid in full in 2018/19, the first year of projections.

3.8 Capital Works

3.8.1 Introduction

Water supply and wastewater businesses are capital intensive. The capital works programs are a critical input to the financial plans.

The capital works programs are typically divided into three categories:

- ☐ Improved levels of service (also referred to as subsidised scheme): Works required for improving services to existing development, such as providing reticulated wastewater to unserved villages or improvements to drinking water quality.
- ☐ Growth: Works required to service new development.
- ☐ Renewals: Replacement of assets that have reached the end of their economic life Council provided capital works projections.

3.8.2 Capital Investment - Base Case

The summary of capital works programs for the Base Case is shown in Table 12.

Appendices B and C include detailed capital works programs of the water supply and sewerage funds respectively.

Table 12: Base Case 30 Year Capital Works Program (2018/19 \$'000)

Group	Water Supply	Sewerage
Improved LOS	33,066	12,218
Growth	15,366	23,043
Renewals	69,527	63,405
Total	117,958	98,665

Source: Council's spreadsheets 20181219 Capex SMRC Water 30 year program Dec 2018 revision for 2020 Budget and Finplan and 20181219 Capex SMRC Sewer 30 year program Dec 2018 revision for 2020 Budget and Finplan.

3.8.3 Modelling Cases

The Base Case excludes:

- □ Water supply: Jindabyne Water Filtration Plant (WFP), backlog villages (Numeralla and Michelago).
- ☐ Sewerage: Backlog villages (Bredbo, Numeralla and Michelago).

The modelling included some variations of the capital works program – for details refer to Table 16 and Table 17.

For discussion of the different capital works scenarios for the water supply and subsidy, refer to Sections 5.3 and 6.3.

3.8.4 Capital Works Grants

Grants are an important component in funding the capital investment. Council advised that it had secured the following grants:

- □ Water Supply: \$15.2 million for Bombala and Delegate WTP.
- □ Sewerage: \$7 million for Bombala STP.

A grant of 50% was assumed for future capital projects that are not part of the base, except that the Jindabyne WFP was also modelled with 100% grant. Council advised that these projects are unlikely to proceed without grants.

3.9 Sanity Check for Capital Investment for Renewals

3.9.1 Introduction

The purpose of the sanity check is to compare the capital investment for renewals to the depreciation of system assets. It was assumed that the existing system assets will be depreciated at the same amount (i.e. 2017/18 annual depreciation, CPI adjusted) over the next 30 years.

This sanity check only applies to existing assets. The depreciation of future assets is not included, and it is assumed that all the renewal investment over the next 30 years applies to the existing assets.

3.9.2 Data

Table 13 summarises SMRC's water supply and sewerage system assets status and the requirement for renewal investment.

Table 13: Renewal Investment Sanity Check

Item	Water Supply	Sewerage
Current Replacement Cost (CRC) ¹	\$201,185 K	\$140,530 K
Written Down Current Cost (WDCC) ¹	\$91,687 K	\$72,462 K
Current Financial Status (WDCC/CRC)	45%	52%
Annual Depreciation (2017/18) ¹	\$3,283 K	\$2,342 K
Estimated 30 Year Depreciation	\$98,490 K	\$70,260 K
30 Year Renewals ²	\$69,527 K	\$63,405 K

Sources: ¹Special Schedules 3-6; ²Capital Works Programs (base case).

3.9.3 Analysis

The forecast investment in renewals for both the water supply and the sewerage funds is lower than the anticipated depreciation over the next 30 years, and it may cause further deterioration of the assets. Council should continue to update the renewal program annually to ensure that the condition of the assets remains viable.

Disclaimer: This analysis is based on accounting values only and is not a substitute to asset analysis that is typically prepared as part of a Total Asset Management Plan.

3.10 Operation, Maintenance and Administration Costs

FINMOD automatically increases the operations, maintenance and administration (OMA) costs proportional to the growth (and to CPI). In addition, Council forecasts that the OMA costs will increase, reflecting general increase and the OMA cost of new assets.

3.10.1 Water Supply

Council advised the following increases:

☐ Year 2 - 2019/20 onwards - 15% increase in operations and maintenance costs abd 5% increase in the administration and engineering cost.

The above is the default OMA costs referred to in Table 16. In addition, the following impacts on the O&M costs were included in the cases that include additional capital works:

- □ \$300,000 increase to O&M costs for the cases that include water filtration plant in Jindabyne. This was not applied to management.
- □ \$100,000 pa for each backlog village.

Refer to Table 16 for details.

3.10.2 Sewerage

Council advised the following increases:

- ☐ Year 2 2019/20 onwards 15% increase in operations and maintenance costs abd 5% increase in the administration and engineering cost.
- ☐ Year 3 onwards 25% O&M increase due to new high energy consuming STP at Bombala. This was applied to the energy costs only.
- ☐ Year 5 onwards 10 % O&M increase due to new high energy consuming STP at Adaminaby. This was applied to the energy costs only.

The above is the default OMA costs referred to in Table 17. In addition, the following impacts on the O&M costs were included in the cases that include sewering villages:

□ \$100,000 pa for each backlog village.

Refer to Table 17 for details.

3.11 Contributions

Other than developer charges, no contributions are forecast.

3.12 Pensioner Assessments

Pensioner assessments are calculated by FINMOD based on the grants for pensioner rebates in 2016/17. The calculated number of pensioner assessments were 789 and 873 (10% and 12.6% of residential assessments) in the water supply and sewerage funds respectively.

The percentages of pensioner assessments are significantly lower than last year, and lower than typical values in country towns. It is recommended that the value of pensioner rebates subsidies be checked to ensure that SMRC receives the full subsidy.

3.13 Revenue Split

The proportion of income that is generated from non-residential customers has a significant impact on the outcomes, as typical residential bills are affected by the contribution of non-residential customers to the total income. The historical income splits are shown in Table 14.

Table 14: Revenue Split

Component	Water	Sewerage	
	Historical Data ¹ Used in Modelling		Historical Data ²
Residential Revenue	73.3%	65%	83.3%
Non-residential Revenue	25.7%	34%	16.0%
Extra Charges	1.0%	1%	0.7%
Total	100%	100%	100%

Source: ¹Special Schedule 3. ²Special Schedule 5.

Water Supply: The proposed pricing strategy developed in 2018 envisaged that the revenue split would be approximately 65%-35% residential – non-residential. Council advised that the non-residential income in 2017/18 was below the expectation due to issues with the billing system. This created a revenue split with the non-residential sector contributing less than expected. Council further advised that, for the modelling, the split should be as forecast by the pricing strategy.

Sewerage: The values in Table 14 were assumed to remain for the planning period.

3.14 Typical Residential Bill

The water supply typical residential bill (TRB) is the bill paid by a residential customer who uses the average residential water consumption and is not a pensioner i.e. annual charges plus average water usage charge.

The current TRB was estimated based on the current charges and on the average residential consumption per property. The calculation is shown in Table 15.

Table 15: 2018/19 TRB

Item	Water Supply	Sewerage
Access charge ¹	\$258	\$900
Usage charge		
• Per kL (step 1 up to 300 kL) ¹	\$3.06	-
■ Per assessment, based on 151 KL/a²	\$462	
Total TRB	\$720	\$900
% paid by vacant assessment	36%	100%

Source: ¹SMRC Revenue Policy ²TBL report 2015/16.

4 FINANCIAL MODELLING INTRODUCTION

4.1 Methodology

The main output of the financial plan is the TRB for the next 30 years. The purpose of the modelling is to identify the lowest TRB that:

- ☐ Allows Council to fund the operation, maintenance and administration (OMA) expenses and the capital investment of the schemes.
- ☐ Maintains the financial sustainability of the water supply and the sewerage funds.

The TRB is used as a measure of affordability, and it sets the price path Council needs to set in order to meet the levels of service.

FINMOD provides detailed financial statements for each fund. The financial statements for base cases are included in the appendices to this report (see Appendices D and E). Sensitivity analysis cases have been developed to identify the impact of different variables on the TRB. A summary of the outcomes is provided in this plan.

The financial outcomes (e.g. TRB, cash and investment) are shown in 2018/19 dollars. The figures shown in this plan need to be CPI-adjusted annually to reflect inflation.

The financial modelling provides target TRB and annual income. Developing tariff options is outside the scope of this report.

4.2 Modelling Parameters

The following modelling parameters were used.

- ☐ Target minimum cash in each fund is \$2 million, but the cash reserves is allowed to drop to around \$1.5 million in order to reduce borrowing.
- ☐ As a minimum, TRB is to be increased with CPI. If required, further increases are introduced.
- □ Borrowing is taken when required, to keep the TRB at the lowest sustainable level.

5 WATER SUPPLY FINANCIAL MODEL

5.1 Financial Data

As of June 2018, the water supply fund had cash and investments of \$15.7 million and outstanding borrowings of \$0.3 million.

5.2 Modelling Cases Water Supply

The modelled cases are shown in Table 16. D indicates default values (refer to notes). All cases include upgrade to the water treatment plants in Bombala and Delegate.

Table 16: Water Supply Modelling Cases

Case	OMA Cost ¹	Jindabyne WFP	Backlog Villages ²	Grant \$M ³	30-yr Capex \$M³	Growth (New ET pa) ⁴
Base (1)	D	No	No	15.2	118.0	50
2	D+\$300k	Yes	No	25.2	138.0	50
3	D+\$300k	Yes	Yes	35.2	153.8	50
4	D+\$500k	Yes	Yes	33.1	153.8	50
5	D+\$500k	Yes	Yes	33.1	153.8	40

Notes to Table 16:

- 1. *Default:* Refer to Section 3.10.1. For Cases 2-5, additional \$300k reflecting the OMA cost of the Jindabyne water filtration plant. For cases 4 and 5, additional \$200k pa reflecting the OMA cost of the backlog villages, from 2021/22.
- 2. Backlog villages are Michelago and Numeralla. Refer to Table 7 on page 10.
- 3. Refer to Section 5.3 below.
- 4. The value for cases 1-4 are as per section 3.3.2 (23 new ET pa). High growth in case 5. As shown in that section, the growth rates in the last 3 years have been significantly higher).

5.3 Capital Works and Grants

As shown in Table 16, there are three capital works scenarios, as described below.

- □ Base case: \$118 million, including a grant for Bombala and Delegate WTP.
- □ Case 2: \$138 million. The difference from the base case is \$20 million for Jindabyne WFP, and a 50% grant. It is likely that the construction of the WFP will be conditional upon receipt of a grant.
- □ Cases 3: Same as Case 2, except that a 100% grant for Jindabyne WFP was assumed.
- □ Cases 4 and 5: \$153.8 million is the full capital works program including Jindabyne WFP and reticulated water supply to Michelago and Numeralla. The scenario includes 50% grant for Jindabyne WFP (as in Case 2) and 50% grants for the villages. It is unlikely that Council will proceed with these projects unless grant is available.

5.4 Water Supply - Base Case

The base case is described in Table 16.

5.4.1 Water Supply Base Case - Capital Works and Growth

The capital works, grants and growth projections for the Base Case are shown in Figure 1.

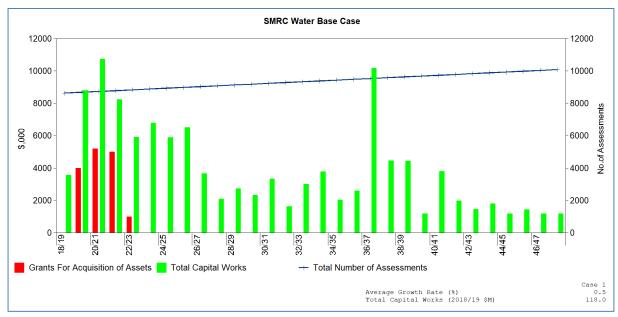


Figure 1: Water Supply Capital Works and Growth - Base Case

5.4.2 Water Supply Base Case - Outcomes

The Base Case outcomes are summarised below and shown in Figure 2.

- □ Typical residential bill: The financial modelling indicates that the TRB can remain at \$720 (CPI adjusted). The modelling indicates that Council will have the opportunity to reduce the TRB in approximately 10 years.
- □ Cash and investment: As shown in Figure 2, the modelling forecasts significant cash build up towards the end of the planning period.
- Borrowings: No borrowing would be required.

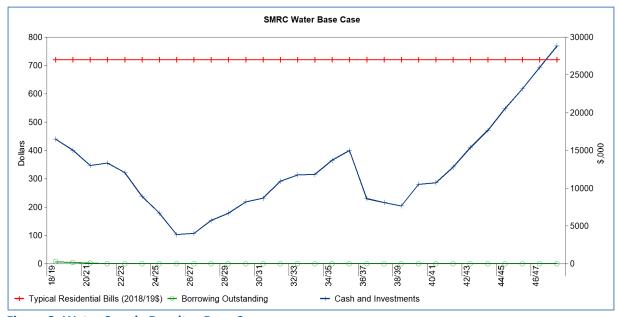


Figure 2: Water Supply Results - Base Case

5.5 Water Supply Case 2

Case 2 is described in Table 16. The capital works program is explained in Section 5.3. As explained in Section 5.2, the OMA cost is also increased by \$300k from 2025/26.

5.5.1 Water Supply Case 2 - Capital Works and Growth

The capital works, grants and growth projections are shown in Figure 3.

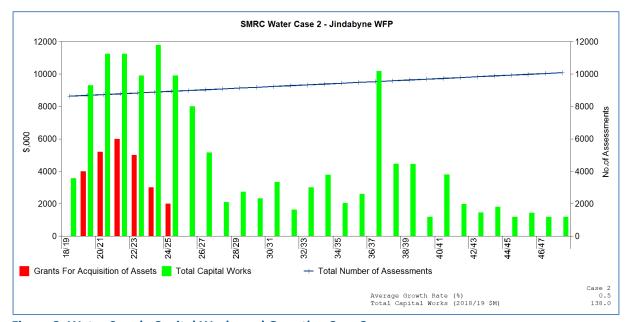


Figure 3: Water Supply Capital Works and Growth - Case 2

5.5.2 Water Supply Case 2 - Outcomes

The outcomes of Case 2 are summarised below and shown in Figure 4.

□ TRB: The financial modelling indicates that the TRB of \$720 (+CPI) can be maintained. Council will have the opportunity to reduce the TRB in approximately 20 years.

- □ Cash and investment: The modelling forecasts sufficient cash reserves throughout the planning period.
- □ Borrowings: Moderate borrowing totalling \$24 million is envisaged.

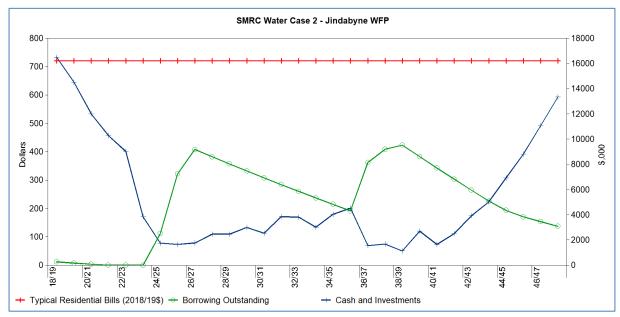


Figure 4: Water Supply Results - Case 2

5.6 Water Supply Case 3

Case 3 is similar to Case 2, except that it includes a grant for the full cost of the Jindabyne Water Filtration Plant (\$20 million). Refer to Table 16.

5.6.1 Water Supply Case 3 - Capital Works and Growth

The capital works, grants and growth projections are shown in Figure 5.

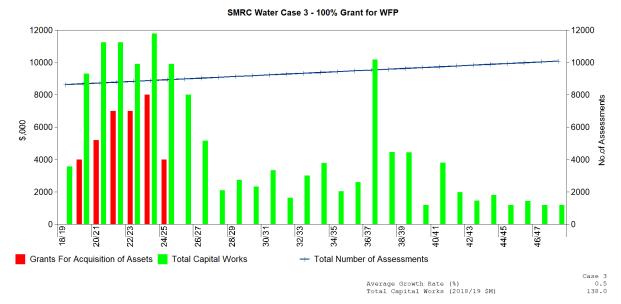


Figure 5: Water Supply Capital Works and Growth - Case 3

5.6.2 Water Supply Case 3 - Outcomes

Case 3 is similar to Case 2 but with higher grant. As expected, it would provide better financial outcomes as summarised below and shown in Figure 6.

- □ TRB: The financial modelling indicates that the TRB can remain at \$720 (CPI adjusted). The modelling indicates that Council will have the opportunity to reduce the TRB in approximately 20 years.
- □ Cash and investment: sufficient cash reserves throughout the planning period.
- □ Borrowings: No new loans are required.

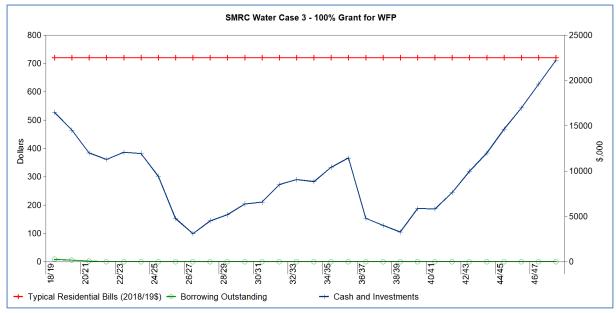


Figure 6: Water Supply Results - Case 3

5.7 Water Supply Case 4

Case 4 is described in Table 16.

5.7.1 Water Supply Case 4 - Capital Works and Growth

This case is based on the full capital works program including Jindabyne WFP and providing water supply to Michelago and Numeralla. Figure 7 shows the capital works and grants. The growth is the same as in the previous cases.

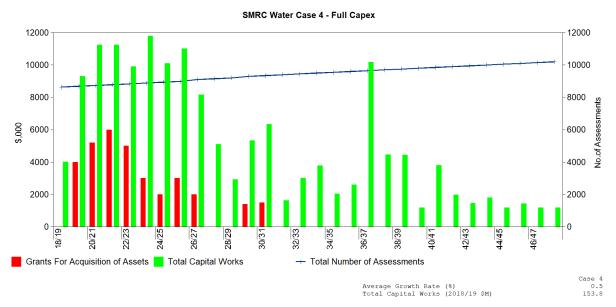


Figure 7: Water Supply Capital Works and Growth - Case 4

5.7.2 Water Supply Case 4 - Outcomes

The outcomes of Case 4 are summarised below and shown in Figure 8.

- ☐ TRB: The TRB will need to increase from \$720 to \$740 in approximately 15 years.
- □ Cash and investment: The cash reserves are expected to be tight.
- □ Borrowings: The expected borrowing throughout the planning period is \$42 million.

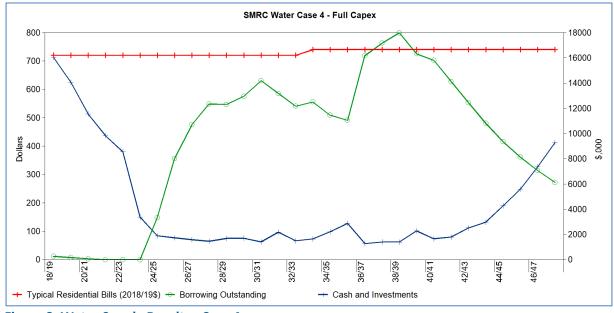


Figure 8: Water Supply Results - Case 4

5.8 Water Supply Case 5

Case 5 is similar to Case 4, but with lower growth rate, as described in Table 16.

5.8.1 Water Supply Case 5 - Capital Works and Growth

The capital works and grants are the same as in Case 4 (Figure 7). The growth projections of cases 4 and 5 are shown in Figure 9.

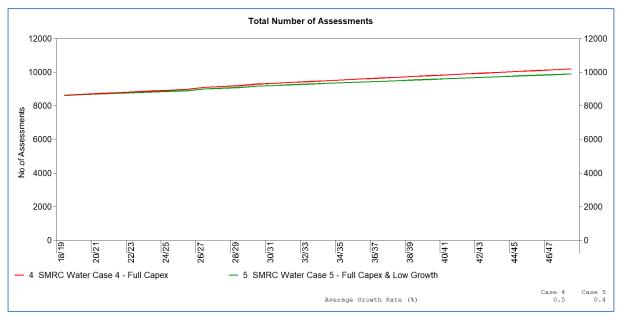


Figure 9: Water Supply Cases 4 and 5 Growth

5.8.2 Water Supply Case 5 - Outcomes

The outcomes of Case 5 are summarised below and shown in Figure 10.

- □ TRB: The TRB will need to be increased to \$740 (CPI adjusted) in approximately 10 years and to \$760 in 15 years. However, it is recommended that if this case is to be adopted, the TRB should increase in 2-3 years to reduce the financial risks associated with low cash reserves and high borrowing (refer to discussion in Section 6.5)
- □ Cash and investment: The cash reserves are expected to be tight.
- □ Borrowings: The expected borrowing throughout the planning period is \$50 million.

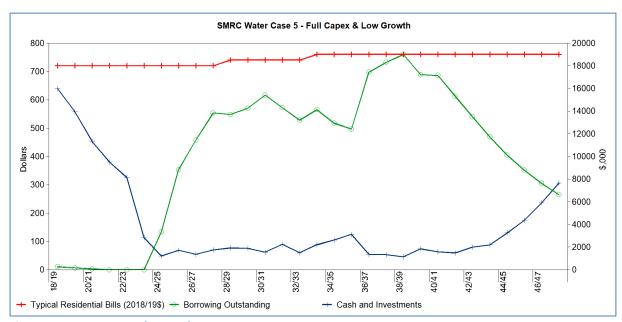


Figure 10: Water Supply Results - Case 5

6 SEWERAGE FINANCIAL MODEL

6.1 Financial Data

As of June 2018, the sewerage fund had cash and investments of \$18.5 million and outstanding borrowings of \$1.4 million. However, as discussed in Section 03.7, the sewerage loan was paid off in 2018/19.

6.2 Modelling Cases Sewerage

The modelled cases are shown in Table 17. D indicates default values (refer to notes). All cases include upgrade to the sewage treatment plants in Bombala and Adaminaby.

Table 17: Sewerage Modelling Cases

Case	OMA Cost ¹	Backlog Villages ²	Grants \$M ³	30-yr Capex \$M ³	Growth (New ET pa) ⁴
Base	D	No	7.0	98.7	23
2	D	No	14.0	98.7	23
3	D + 100k	Bredbo	14.9	106.2	23
4	D + \$300k	B + M + N	23.5	123.4	23
5	D + \$300k	B + M + N	23.5	123.4	40

Notes to Table 17:

- 1. *Default:* Refer to Section 3.10.2. The cases that include the villages include \$100 k as annual cost of operating each village scheme.
- 2. Backlog villages are Bredbo, Michelago and Numeralla (B, M and N). Refer to Table 7 on page 10.
- 3. Refer Section 6.3 below.
- 4. The value for cases 1-4 are as per section 3.3.2 (22 new ET pa). High growth in case 5. (as shown in section 3.3.2, the growth rates in the last 3 years have been significantly higher).

6.3 Capital Works and Grants

As shown in Table 16 there are three capital works scenarios, as described below.

- ☐ Base case and Case 2: \$98.7 million.
- ☐ Case 3: \$106.4 million with the addition of sewerage to Bredbo.
- □ Cases 4 and 5: \$123.4 million, with sewerage to all three backlogages.

There are four subsidy cases. as follows:

- □ Base Case: \$7 million for Bombala STP. This has been secured.
- □ Case 2: \$7 million as above, and \$7 million for Adaminaby STP. Application has been submitted.
- Case 3: \$7 million for Bombala, \$4.3 million for Adaminaby (50%) and \$3.6 million for Bredbo (50%)
- □ Cases 4 and 5: \$7 million for Bombala, \$4.3 million for Adaminaby (50%), \$3.6 million for Bredbo (50%) and \$8.6 for Michelago and Numeralla (50%).

6.4 Sewerage - Base Case

The base case is defined in Table 17. It includes a \$7 million grant.

6.4.1 Sewerage Base Case - Capital Works and Growth

The capital works, grants and growth projections for the Base Case are shown in Figure 11. The figure indicates that the capital works program is biased towards the early years.

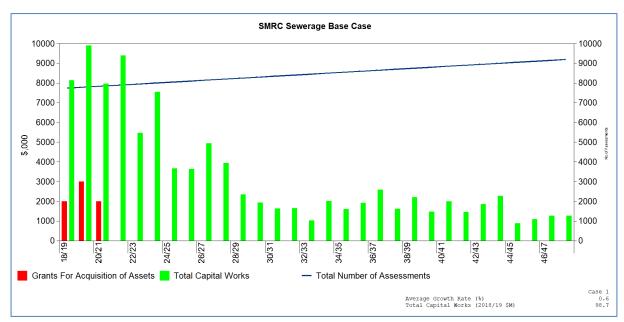


Figure 11: Sewerage Capital Works and Growth - Base Case

6.4.2 Sewerage Base Case - Outcomes

The Base Case outcomes are summarised below and shown in Figure 12.

- □ Typical residential bill: The current TRB of \$900 can remain (CPI adjusted) for the planning period. However, the high level of debt and low cash reserves create high risk to the financial viability of the scheme. it is recommended to increase the TRB by approximately 2% (\$20 pa) in the early years in order to reduce the risk. Refer to Section 6.5.
- □ Cash and investment: The modelling indicates tight cash reserves.
- □ Borrowings: Significant borrowings will be required to fund capital works. Total borrowing throughout the planning period is forecast to be \$31 million (+ CPI).

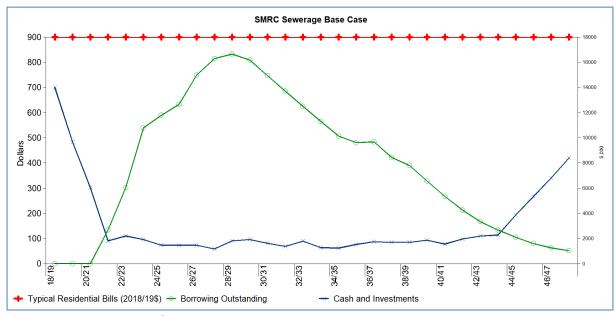


Figure 12: Sewerage Results - Base Case

6.5 Impact of small TRB increase

The author is aware that Council is reluctant to increase the TRB. The following information is provided to demonstrate the impact of a small TRB increase on reducing the financial risk and increasing the financial sustainability. It is relevant to other high-risk cases, such water supply case 5.

The sewerage base case was used to demonstrate this principle. The base case was re-modelled with a \$20 (2.2%) increase to the TRB. The comparison of key indicators relating to financial sustainability are given in Table 18 and in Figure 13, Figure 14 and Figure 15.

Table 18: Impact of small increase (2018/19 \$)

Case	TRB	30 years borrowing required	Max Borrowing outstanding	Max Debt- Service Ratio	30 years interest expense
Base	\$900	\$31 M	\$16.6 M	0.17	\$9.7 M
Base with increase	\$920	\$22 M	\$14.9 M	0.14	\$7.3 M

A TRB of \$900 represents a high-risk funding strategy, and it is recommended that if this case is to be adopted, the TRB should be increased to at least \$920 to reduce the risk.

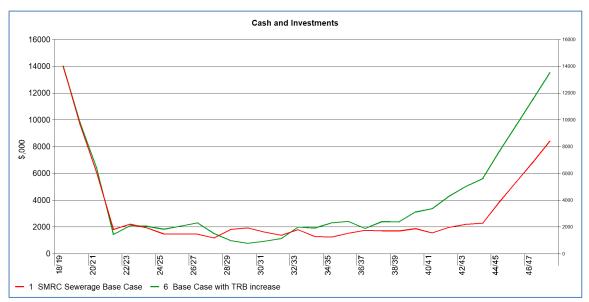


Figure 13: Base Case Cash Comparison

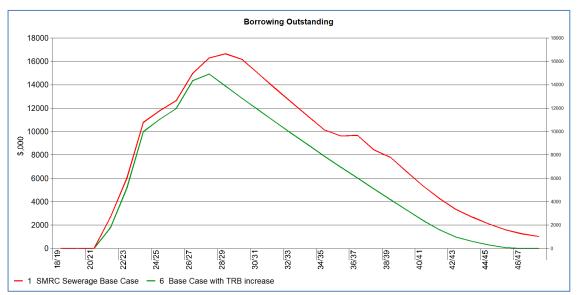


Figure 14: Base Case Debt Comparison

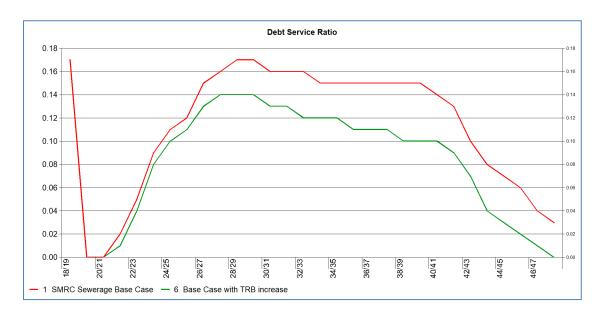


Figure 15: Base Case Debt-Service Ratio Comparison

6.6 Sewerage - Case 2

This case is defined in Table 17. It includes a \$14 million grant (refer Section 6.3).

6.6.1 Sewerage Case 2 - Capital Works and Growth

The capital works, grants and growth projections are shown in Figure 16.

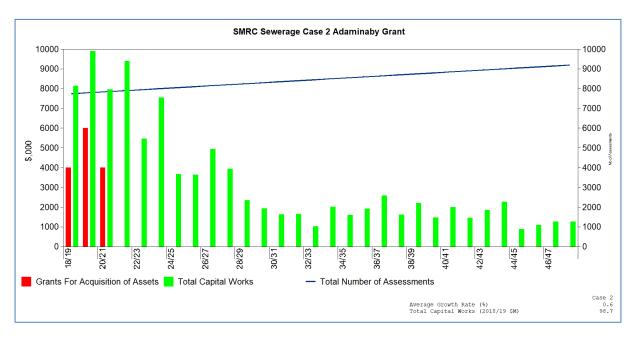


Figure 16: Sewerage Capital Works and Growth - Case 2

6.6.2 Sewerage Case 2 - Outcomes

Case 2 outcomes are summarised below and shown in Figure 17.

- ☐ TRB: The current TRB of \$900 can remain (CPI adjusted) for the planning period.
- □ Cash and investment: The modelling indicates adequate cash reserves.
- □ Borrowings: Borrowings will be required to fund capital works. Total borrowing required is \$12 million, significantly less than the requirements of the base case.

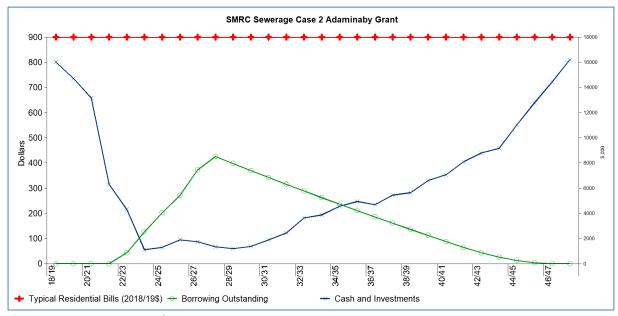


Figure 17: Sewerage Results – Case 2

6.7 Sewerage - Case 3

This case is defined in Table 17. It includes a \$14.9 million grant (refer Section 6.3)

6.7.1 Sewerage Case 3 - Capital Works and Growth

The capital works, grants and growth projections are shown in Figure 18. The sewering of Bredbo is indicated by the capital works and by the increase in the number of assessments around 2031-33.

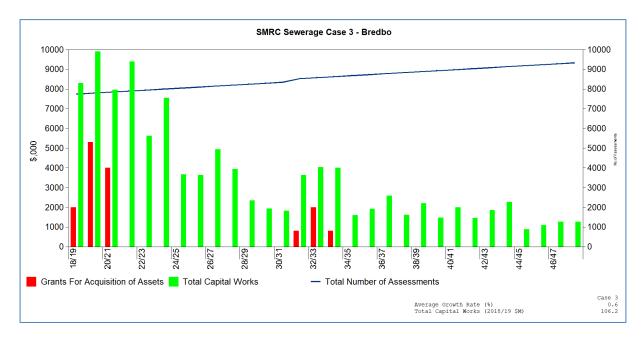


Figure 18: Sewerage Capital Works and Growth - Case 3

6.7.2 Sewerage Case 3 - Outcomes

Case 3 outcomes are summarised below and shown in Figure 19.

- ☐ TRB: The current TRB of \$900 can remain (CPI adjusted) for the planning period.
- □ Cash and investment: The modelling indicates adequate cash reserves.
- □ Borrowings: The borrowing requirements are estimated at \$23 million during the planning period.

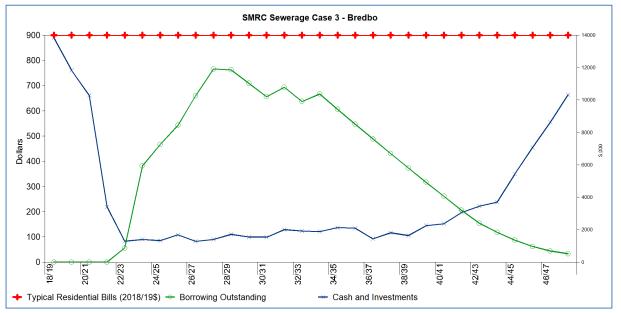


Figure 19: Sewerage Results- Case 3

6.8 Sewerage - Case 4

This case is defined in Table 17. For description of the grants refer to Section 6.3.

6.8.1 Sewerage Case 4 - Capital Works and Growth

The capital works, grants and growth projections are shown in Figure 20.

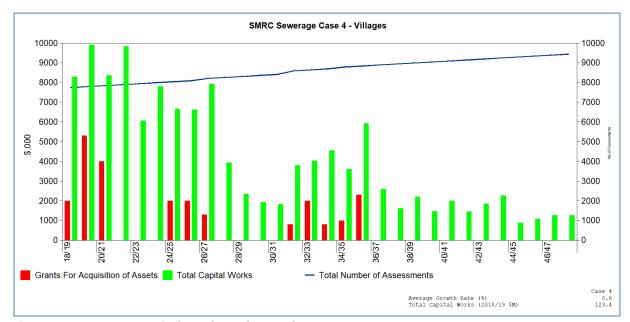


Figure 20: Sewerage Capital Works and Growth - Case 4

6.8.2 Sewerage Case 4 - Outcomes

Case 4 outcomes are summarised below and shown in Figure 21.

- ☐ TRB: The current TRB of \$900 needs to be increased to \$940 (+ CPI) in three years. This is less than 5% increase above CPI.
- □ Cash and investment: The modelling indicates adequate cash reserves.
- Borrowings: Borrowings will be required to fund capital works. Total borrowing throughout the planning period is forecast to be \$32 million.

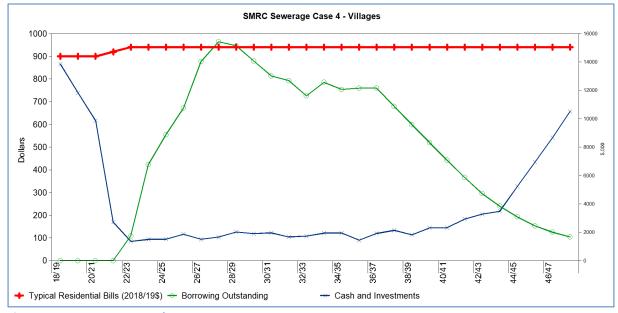


Figure 21: Sewerage Results - Case 4

6.9 Sewerage - Case 5

This case is defined in Table 17. It has higher growth rates than Case 4.

6.9.1 Sewerage Case 5 - Capital Works and Growth

It was assumed that the capital works used in Case 4 can support the higher growth of Case 5. Figure 22 shows the same capital works program as in Case 4, but with higher growth.

The OMA costs of this case have been adjusted to increase proportional with the population growth.

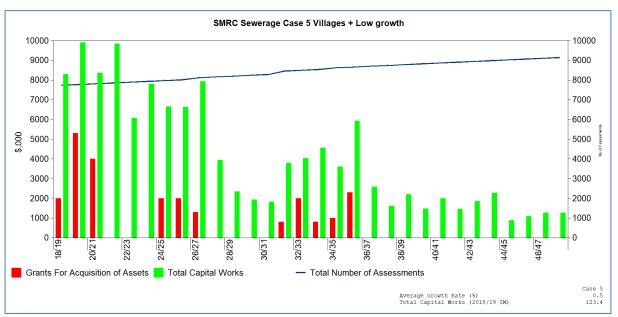


Figure 22: Sewerage Capital Works and Growth - Case 5

6.9.2 Sewerage Case 5 - Outcomes

Case 5 outcomes are summarised below and shown in Figure 23.

- ☐ Typical residential bill: The current TRB of \$900 needs to be increased to \$960 (+CPI) in 3 years. This is an increase of approximately 7% above CPI.
- □ Cash and investment: The modelling indicates sufficient cash reserve.
- □ Borrowings: Total borrowing is forecast to be \$33 million.

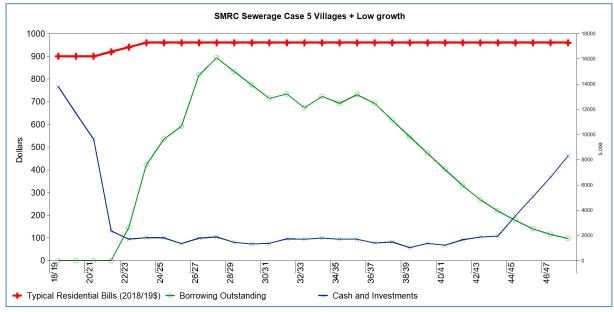


Figure 23: Sewerage Results - Case 5

Snowy Monaro Regional Council Financial Plans for Water Supply and Sewerage



Appendix A
Special Schedules for
Water Supply and
Sewerage
2017/18

Special Schedule 3 — Water Supply Income Statement Includes all internal transactions, i.e. prepared on a gross basis for the year ended 30 June 2018

\$'00	00		2018	13/5/16 to 30/6/17
Α	Expenses and income Expenses			
1.	Management expenses a. Administration b. Engineering and supervision		814 352	991 652
2.	Operation and maintenance expenses – dams and weirs a. Operation expenses b. Maintenance expenses		_ _	_ 63
	Mainsc. Operation expensesd. Maintenance expenses	Operations 1348 Maintenance 1503	935	25 1,266
	Reservoirse. Operation expensesf. Maintenance expenses		148 55	75 123
	 Pumping stations g. Operation expenses (excluding energy coh. Energy costs i. Maintenance expenses 	osts)	159 265 81	181 290 129
	 Treatment j. Operation expenses (excluding chemical k. Chemical costs l. Maintenance expenses 	costs)	584 21 320	305 464 301
	Otherm. Operation expensesn. Maintenance expenseso. Purchase of water		453 112 -	155 75 —
3.	Depreciation expenses a. System assets b. Plant and equipment		3,283 65	2,321 88
4.	Miscellaneous expenses a. Interest expenses b. Revaluation decrements c. Other expenses d. Impairment – system assets e. Impairment – plant and equipment f. Aboriginal Communities Water and Sewe g. Tax equivalents dividends (actually paid)	rage Program	26 - - - - -	35 - - - - -
5.	Total expenses		7,677	7,539

Special Schedule 3- Water Supply Income Statement (continued) Includes all internal transactions, i.e. prepared on a gross basis for the year ended 30 June 2018

\$'000	2018	13/5/16 to 30/6/17
4 000	2010	10 30/0/17
Income		
6. Residential charges		
a. Access (including rates)	2,083	3,143
b. Usage charges	3,540	1,179
7. Non-residential charges		
a. Access (including rates)	337	625
b. Usage charges	1,630	2,914
8. Extra charges	77	6
9. Interest income	324	320
10. Other income	190	316
10a. Aboriginal Communities Water and Sewerage Program	-	_
11. Grants		
a. Grants for acquisition of assets	966	1,174
b. Grants for pensioner rebates	37	55
c. Other grants	_	_
12. Contributions		
a. Developer charges	351	326
b. Developer provided assets	_	_
c. Other contributions	-	_
13. Total income	9,535	10,058
14. Gain (or loss) on disposal of assets	(5)	(166)
15. Operating result	1,853	2,353
15a. Operating result (less grants for acquisition of assets)	887	1,179

Special Schedule 3- Water Supply Income Statement (continued) Includes all internal transactions, i.e. prepared on a gross basis for the year ended 30 June 2018

\$'00	0		2018		3/5/16 0/6/17
В	Capital transactions Non-operating expenditures				
16.	Acquisition of fixed assets a. New assets for improved standards b. New assets for growth c. Renewals d. Plant and equipment		846 - 513 175	1,	615 ,170 949 120
17.	Repayment of debt		79		92
18.	Totals	1,	613	2	,946
	Non-operating funds employed				
19.	Proceeds from disposal of assets		-		15
20.	Borrowing utilised		_		_
21.	Totals		_		15
С	Rates and charges				
22.	Number of assessments a. Residential (occupied) b. Residential (unoccupied, ie. vacant lot) c. Non-residential (occupied) d. Non-residential (unoccupied, ie. vacant lot)		335 323 902 24	7	,389 292 918 11
23.	Number of ETs for which developer charges were received	63	ET	37	ET
24.	Total amount of pensioner rebates (actual dollars)	\$ 96,	035	\$ 102	,665

Special Schedule 4 – Water Supply Statement of Financial Position Includes internal transactions, i.e. prepared on a gross basis

as at 30 June 2018

\$'000		Current	Non-current	Total
	SETS sh and investments			
	Developer charges	_	1,857	1,857
	Special purpose grants	_	_	_
	Accrued leave	_	_	_
	Unexpended loans	_	_	-
	Sinking fund Other	9,732	- 4,107	- 13,839
		9,732	4,107	13,033
	ceivables			
	Specific purpose grants	4.070	-	4 070
	Rates and availability charges	1,270	_	1,270
	User charges Other	2,350 16	_	2,350 16
		10	_	10
27. Inv	ventories	_	_	_
28. Pro	operty, plant and equipment			
a. \$	System assets	_	91,687	91,687
b. I	Plant and equipment	_	3,251	3,251
29. Otl	her assets	_	_	-
30. To	tal assets	13,368	100,902	114,270
LI/	ABILITIES			
	nk overdraft	_	_	_
32. Cr	editors	72	_	72
33. Bo	rrowings	85	264	349
34. Pro	ovisions			
	Tax equivalents	_	_	_
	Dividend	_	_	-
c. (Other	_	_	_
35. To	tal liabilities	157	264	421
36. NE	T ASSETS COMMITTED	13,211	100,638	113,849
EQ	UITY			
37. Ac	cumulated surplus			97,589
38. As	set revaluation reserve			16,260
39. Oth	her reserves		_	
40. TO	TAL EQUITY		=	113,849
	te to system assets:			·
	rrent replacement cost of system assets			201,185
	cumulated current cost depreciation of system assets itten down current cost of system assets		_	(109,498 91,687

Special Schedule 5 — Sewerage Service Income Statement Includes all internal transactions, i.e. prepared on a gross basis for the year ended 30 June 2018

\$'0	00	2018	13/5/16 to 30/6/17
Α	Expenses and income Expenses		
1.	Management expenses		
	a. Administration	705	760
	b. Engineering and supervision	188	305
2.	Operation and maintenance expenses		
	- mains		
	a. Operation expenses	4	87
	b. Maintenance expenses Operation 1693	513	505
	- Pumping stations Maintenance 1209		
	c. Operation expenses (excluding energy costs) Energy 372	188	142
	d. Energy costs	100	131
	e. Maintenance expenses	223	222
	C. Mantonando expended		
	- Treatment		
	f. Operation expenses (excl. chemical, energy, effluent and biosolids management costs)		652
	g. Chemical costs	123	150
	h. Energy costs	272 46	314
	i. Effluent management	139	67 78
	j. Biosolids management	440	952
	k. Maintenance expenses	440	932
	- Other		
	I. Operation expenses	531	520
	m. Maintenance expenses	33	53
3.	Depreciation expenses		
	a. System assets	2,342	2,708
	b. Plant and equipment	61	85
4.	Miscellaneous expenses		
	a. Interest expenses	99	135
	b. Revaluation decrements	_	2,886
	c. Other expenses	_	_
	d. Impairment – system assets	_	_
	e. Impairment – plant and equipment	_	_
	f. Aboriginal Communities Water and Sewerage Program	_	_
	g. Tax equivalents dividends (actually paid)	_	_
5.	Total expenses	6,791	10,752
	•		

Special Schedule 5 – Sewerage Service Income Statement (continued) Includes all internal transactions, i.e. prepared on a gross basis for the year ended 30 June 2018

\$'000	2018	13/5/16 to 30/6/17
Income		
6. Residential charges (including rates)	6,682	6,773
7. Non-residential charges		
a. Access (including rates)	739	842
b. Usage charges	388	299
8. Trade waste charges		
a. Annual fees	95	99
b. Usage charges	63	18
c. Excess mass charges	_	_
d. Re-inspection fees	_	-
9. Extra charges	55	4
10. Interest income	383	358
11. Other income	145	147
11a. Aboriginal Communities Water and Sewerage Program	_	-
12. Grants		
a. Grants for acquisition of assets	35	_
b. Grants for pensioner rebates	42	53
c. Other grants	_	-
13. Contributions		
a. Developer charges	407	397
b. Developer provided assets	_	_
c. Other contributions	_	-
14. Total income	9,034	8,990
15. Gain (or loss) on disposal of assets	(2)	(32)
16. Operating result	2,241	(1,794)
16a. Operating result (less grants for acquisition of assets)	2,206	(1,794)

Special Schedule 5 — Sewerage Service Income Statement (continued) Includes all internal transactions, i.e. prepared on a gross basis for the year ended 30 June 2018

\$'00	0	2018		13/5/16 to 30/6/17
φυυ		2010		10 30/0/17
В	Capital transactions			
	Non-operating expenditures			
17.	Acquisition of fixed assets			
	a. New assets for improved standards	379		52
	b. New assets for growth	_		_
	c. Renewals	3		410
	d. Plant and equipment	214		43
18.	Repayment of debt	304		355
19.	Totals	900	=	860
	Non-operating funds employed			
20.	Proceeds from disposal of assets	_		15
21.	Borrowing utilised	-		_
22.	Totals	_	_	15
С	Rates and charges			
23.	Number of assessments			
	a. Residential (occupied)	6,526		6,537
	b. Residential (unoccupied, ie. vacant lot)	411		321
	c. Non-residential (occupied)	736		751
	d. Non-residential (unoccupied, ie. vacant lot)	19		10
24.	Number of ETs for which developer charges were received	63 ET		37 ET
25.	Total amount of pensioner rebates (actual dollars)	\$ 96,486	\$	96,291

Special Schedule 6 – Sewerage Service Statement of Financial Position Includes internal transactions, i.e. prepared on a gross basis

as at 30 June 2018

\$'000	Current	Non-current	Total
ASSETS			
26. Cash and investments	_	1,273	1,273
a. Developer chargesb. Special purpose grants	_	1,273	1,273
c. Accrued leave	_	_	_
d. Unexpended loans	_	_	_
e. Sinking fund	_	_	_
f. Other	11,441	5,738	17,179
27. Receivables			
a. Specific purpose grants	_	_	_
b. Rates and availability charges	2,800	_	2,800
c. User charges	220	_	220
d. Other	58	123	181
28. Inventories	_	_	_
29. Property, plant and equipment			
a. System assets	_	72,462	72,462
b. Plant and equipment	_	1,897	1,897
30. Other assets	_	_	-
31. Total assets	14,519	81,493	96,012
LIABILITIES			
32. Bank overdraft	16	_	16
33. Creditors	-	_	_
34. Borrowings	324	1,104	1,428
35. Provisions			
a. Tax equivalents	_	_	_
b. Dividend	_	_	_
c. Other	_	_	_
36. Total liabilities	340	1,104	1,444
37. NET ASSETS COMMITTED	14,179	80,389	94,568
EQUITY			
38. Accumulated surplus			93,597
39. Asset revaluation reserve			971
40. Other reserves		_	
41. TOTAL EQUITY		=	94,568
Note to system assets:			
42. Current replacement cost of system assets			140,530
43. Accumulated current cost depreciation of system assets44. Written down current cost of system assets		_	(68,068) 72,462
44. Written down current cost or system assets			12,402



Appendix B Water Supply Capital Works Program

Full Capital Works (Cases 3, 4, 5)

SNOWY MONARO REGIONAL	L COUI	NCIL			,	WATE	R SUP	PLY S	SERVI	CES	- 30 Y	ear C	apital	Works F	rogran	n																	
CAPITAL WORKS IN 2018\$('000)	Current Ye	ar	2018	/19		0	1	2	3	4	5	6	7	8	9 10	11	12	13	14	15	16	17	18	9 :	20 21	22	23	24	25	26 2	7 28	29	30
REGION	SUBSIDY	ILOS	GROWTH	RENEW	CHECK	-	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26 202																	1/45 2045/4		
ALL SCHEMES Telemetry	l																	ļ												<mark> </mark>			
Base Station CMF and RMF		0%	0%	100%	100%	1,250	150	150	150			700	20		20		20			20			20										
Telemetry Bombala		0%	0%		100%	115			40																								
Cooma Telemetry Remote sites	 	50% 0%	0% 0%		100% 100%	358 450		15	90 15		15	15	50 15	15	15	15	15 15	15	15	15	15	50 15	<u>15</u>	15	15	15 1	5 15	15	15	15	15 1	5 1	5 15
Plant and Equipment				10070	10070				10	10	10		10	10		10	10	1	<u>-</u>							-10	1				-10	<u> </u>	<u> </u>
Vehicles (In separate Plant Replacement Program)	[I															
Plant and Equipment (In separate Plant Replaceme Water Meters	ent program) 																															
Consumer Meters - Renewals		0%	0%	100%	100%	2,082	100	100	100	66	66	66	66	66	66 (66 6	66 66	66	66	66	66	66	66	66	66	66 66	66	66	66	66	66 60	6 66	66
Consumer Meters - (New installation by developer)		0%	100%	0%	100%	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0 0
ADAMINABY Water Mains																																	
Rising Mains and Trunk Mains		0%	0%	100%	100%																												
Reticulation Mains		0%	0%	100%	100%	1,920	100		200					220		1	50			150				150			150				200 20	0 20	0 200
Water Pump Stations Intake Pumping Station - Lake Eucumbene																																	
(Observation Point, Old Adaminaby)	ļ	0%	0%		100%	0												<u> </u>									<u> </u>						
Civil Works	 	0%	0%		100%	0							ļ					250															
M&E Building		0% 0%	0% 0%		100% 100%	250 0	 							 				250	 														
Water Reservoirs			<u> </u>			<u>~</u>																											
Gooroodee Hill		0%	0%		100%	0												ļ															
Roof and access structures	 	0% 0%	0% 0%		100% 100%	25	25							ļ				 															
Adaminaby township Roof and access structures	 	0%	0%		100%	<u>0</u> 45		45						 				 															
Water Treatment						iX 		<u>.</u>																									
Modification to the Chlorination system		100%	0%		100%	0								00				ļ															
Chlorination System Fluoridation System	 	0% 0%	0% 0%		100% 100%	30 30	.L							30				 															
Water Filtration Plant		100%	0%	0%	100%	1,400	 						400	400	400 2	00		 															
BERRIDALE																																	
Water Mains	 	00/	00/	100%	100%																												
Rising Mains and Trunk mains Reticulation Mains		0% 0%	0% 0%		100%	1,650	200			200			 	200			200	 	 		200				200			200			25	60	
Berridale - Pressure Reduction Valve at Mackay St							<u> </u>											†									- - -						-
Reservoir Water Pump Stations		100%	0%	0%	100%	300		300																									
Pumping Station (Booster PS at East Jindabyne)		0%	0%	100%	100%	0																											
Civil Works		0%	0%	100%	100%	400										4	00	<u> </u>															
M&E	 	0%	0%		100%	530			30				ļ		5	00																	
Building Pumping Station (Booster PS Berridale Industrial Es	state)	0% 0%	0% 0%		100% 100%	0	 							 				 	 														
Civil Works	1	0%	0%		100%	0												 									· 						
M&E		0%	0%		100%	100			100									I															
Building Water Reservoirs		0%	0%	100%	100%	50			50																								
Barney's Range balance tank		0%	0%	100%	100%	150			150																								
Roof and access structures		0%	0%			25													25														
Mackay Street Street Reservoir	 	0%	0%		100%	0							50						 														
Roof and access structures Short Street Reservoir	 	0% 0%	0% 0%		100% 100%	100 0	50						50	ļ				 	 														
Roof and access structures		0%	0%	100%	100%	220								195	25			<u> </u>	<u> </u>			<u>-</u>					<u> </u>	<u>-</u>			<u> </u>		
Industrial Estate Reservoirs		0%	0%		100%	0											55	ļ									- -						
Roof and access structures Water Treatment		0%	0%	100%	100%	70			15								55										-						
Chlorination System		100%	0%	0%	100%	75		75																									
Fluoridation System		0%	0%	100%	100%	0												Ţ <u></u>															
BOMBALA Water Mains																		ļ															
Water Mains Water Mains Renewal/ Replacement				100%	100%	4,900	200	200	200	200	200	200	200	200	200 2	00 2	00 200	200	200	200	200	200	200	200	100 1	100 10	0 100	100	100	100	100 10	00 10	0 100
Meter replacement program				100%	100%	120	60	60																									
Water Pump Stations				4000/	4000/																												
PS Renewal Coolumbooka Dam - Wall height increase 1m		100%		100%	100% 100%	300 2,000								 			300	 	 								2000						
Water Reservoirs		10070			10070	_,000																					2000						
Reservoirs Renewal				100%	100%	3,000														700	800					500							
WHS Improvements		100%			100%	3,200		100	100					ļ				ļ		700	800				15	500							
Water Treatment WTP - Control system upgrade	500	50%		50%	100%	0																											
WTP - Control system upgrade WTP - Replacement and Upgrade	13000	100%		0%		12,000		2000	4000	4000	2000			<u> </u>				<u> </u>	<u> </u>								<u> </u>						
Fluoridation System	150	100%		0%	100%	350		350																									
BREDBO Bredbo water supply augmentation for growth		90%	10%	0%	100%	500								ļ	500			ļ															
Rising Mains Replacement	 	90%	10%	0%	100%	175							 	 				 															
Water Main replacement (projected)		0%	0%	100%	100%	1,300						200			200			250	<u> </u>				300				350	<u> </u>					
Reservoirs		0%	0%	100%	100%	1,635					35			ļ				1500	<u>-</u>				100				-						
Pump station Investigation of Bredbo water supply augmentation f	for growth	0% 10%	0% 90%	100% 0%	100% 100%	220 75				20	75			 			180	 															
COOMA	or growth	1070	3U 70	U70	10070						73							 															
Water Mains																																	
450mm Rising Main - AV & access pits		10%	0%	90%	100% 100%	280 18,275		15 500		20 525	20 525				20 2 550 55		22 22 550 550			600	600	600		700	700	700 70	700	700	700	700	700 7	20 70	0 700
Water Main replacement Cooma Water Pump Stations		10%	10%	80%	100%	10,2/5	500	500	500	525	525	525	525	323	550 5	50 5	550	550	600	600	600	600	600	700	700 7	700 70	700	700	700	700	700 70	00 70	0 700
- Johna Trator i amp otationo																																	

SNOWY MONARO REGIONAL	L COUNCIL Current Year	2018	/19		WATE	R SUP	PLY S	SERV	ICES -	30 Ye	ar Ca	pital W	orks	Ī														
CAPITAL WORKS IN 2018\$('000) REGION	SUBSIDY ILOS	GROWTH	RENEW	CHECK		1 2018/19	2019/20	3 2020/21	4 2021/22 20	5 022/23 2	6	7	8	9 026/27 20	10	11 2028/29	12 2029/30	13 2030/31	14 15 2031/32 2032/33	16 2033/34	17 18 2034/35 2035/3	19 20 6 2036/37 2037/3	21 8 2038/39	22 23 2039/40 2040/41	24	25 26 2042/43 2043/44	27 28 2044/45 2045/46	29 30 2046/47 2047/48
Weir Repair	0%						100																					
Cooma Water Reservoirs Snowy1 Reservoir	0%	0%	100%	100%	1,800		500	200													200 50	0 400			-		-	
Snowy2 Reservoir	0%	0%	100%	100%	150		150																					
ChurchHill Reservoir Pine Range Reservoir	0%			100% 100%	7,778	522	20	36	200										 	 	}	7000		 		 	-}	
Cooma Water Treatment	070	076	100%	100 /6	7,770	322	20	30	200													7000					- 	
WTP electrical	20%				1,873		20		500	500	700					I			25	5		27	29	3.	1	33	3	
WTP Mech WTP pumps	20%			100% 100%	199 2,190		50 140		150		600			80		650			 	650	 	50		 	-	 		
WTP civil	20%		· 	100%	265	30	170	30	35																			
DALGETY Water Mains		 																		 -		<mark></mark>			-		- <mark> </mark>	
Rising Mains and Trunk mains	0%	0%	i	100%	0																							
Reticulation Mains	0%	0%	100%	100%	425	75				50				50				50			50		75			75		
Water Pump Stations Dalgety Drought Proof Intake	0%	0%	100%	100%	0																							
Intake Pumping Station - Snowy River	0%			100%	0																							
Civil Works M&E (Incl PLC)	0%		100% 100%	100% 100%	152	 	25	50												 	77			 		 		
Building	0%		100%	100%	0																							
Bore Water Reservoirs	0%	0%	100%	100%	0																			 		 	·	
Dalgety Intake	0%	0%	100%	100%	0																						<u> </u>	
Roof and access structures	0%			100%	40		40													ļ	[<u> </u>							
Dalgety township Roof and access structures	0%		100% 100%	100% 100%	95			25											70	 	 			 	-	 	- 	
Water Treatment																												
Chlorination System Filtration System	100%			100% 100%	0 200				25		25			25			50		75	;	 			 	-	 		
Dalgety - Filtration backwash	100%	J	ļ		0				25		25			25						' 	 				-	 		
DELEGATE	500		500/	4000/	C20		045		445																			
Water Mains Renewal/ Replacement Water Meters	50% 50%		50% 50%		630 0	 	215		415											 -	 			 		 		
WTP Upgrade	800 100%			100%	800			600	200																			
Weir and Intake Upgrade Water PS Refurbishment and Upgrade	1000 100% 1200 100%	 	 	100% 100%	1,000 1,200		100 300	400 450	500 450											 	 			 	-	 		
Additional New Reservoir - Drought Security	100%		<u> </u>	100%	0		300	430	430												l					<u> </u>		<u> </u>
IWCM - (Not capworks) EAST JINDABYNE	100%			100%	0																							
Water Mains																											-	
Rising Mains and Trunk mains	0%		100%	100%	238									238	000	050												
Reticulation Mains Water Pump Stations	0%	0%	100%	100%	480										230	250									-	 	<u> </u>	
Intake Pumping Station - Lake Jindabyne (Old Kosc			ļ																									
Civil Works M&E (Incl PLC)	0%		 	100% 100%	250 500				250				500						 	 	 			 	-	 		
Building	0%		· 	100%	0								300								l					<u> </u>		
Water Reservoirs	00/	00/	100%	100%																ļ								
Roof and access structures	0%	J																	235	 	 			 	-	 	- 	
East Jindabyne township	0%		0%		570			570												ļ								
Roof and access structures Water Treatment	0%	0%	100%	100%	0																				-			
Chlorination System	0%	J			0																							
Fluoridation System Lime Dosing System	250 100% 100%				250 150		250 150													 	 			 	-	 		
EUCUMBENE COVE	100%	0 %	0 76	100 /0	130		130																					
Water Mains	4000	001	001	40000	750				200	200	250																	
Rising Mains and Trunk Mains Reticulation Mains	100%	100%	0%	100% 100%	750 400				200	200	350 400								 	 	 			 	-	 		
Water pump Stations																				 								
Intake Pumping Station - Eucumbene Dam Civil Works	100%	0%	0%	100%	15		15													 	 			 	-	 	- 	
M&E	100%	0%	0%	100%	112	L	35					t				77				<u> </u>	<u> </u>	<u></u>				<u> </u>	<u> </u>	<u> </u>
Building Water Becompile	0%	0%	100%	100%	0							T								ļ	ļ					ļ		<u> </u>
Water Reservoirs Eucumbene Cove Village	0%	0%	100%	100%	0																						 	
Roof and access structures	0%	0%	100%	100%	20										20													
Water Treatment Eucumbene Cove Chlorination System	0%	0%	100%	100%	125	25			100											 							 	
JINDABYNE																												
Water Mains Rising Mains		ļ	ļ																	ļ	ļ				-			
Rising main (duplication) BWZ pump station to	 	 	 	 																 	 			 	-	 	- 	
BWZ reservoir Rising main (duplication) LV pumping station to	0%	100%	0%	100%	820						820									 	 			 	-	 	- 	
LV reservoir	0%			100%	422												422			<u> </u>	<u> </u>						<u> </u>	
Trunk and Reticulation Mains Reticulation mains (General)	0% 0%						500	550		500 400	500 400			300	300	300	Ţ		450	450	450	300 45	0 450	ļ	500	500 750		
Trunk/suction main - Barry way to LV pumping	i		1				500	550		400	400			300	300	300			450	450	400		450	 	500	750	 	
station Trunk main connecting to BWZ Reservoir	0%	J	0% 0%	100% 100%	665 299							165 299							 	 	 	500		 	-	 	- 	
Trunk Main (Duplication) - link BWZ to			 									255								 	 			 	-	 	 	
Jindabyne HZ/LZ	0%	100%	0%	100%	567								567							1					1			

SNOWY MONARO REGIONAL COUNCIL				WATE	R SUP	PLY S	ERVI	CES -	- 30 Y	'ear C	apital	Work	s Pro	gram																	
CAPITAL WORKS IN 2018\$('000)	2018	/19		0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19 20	21	22 23	24	25	26	27 28	29	30
REGION SUBSIDY ILOS (GROWTH	RENEW	CHECK		2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27												2039/40 2040/41						
Reticulation main (duplication) Ready Cutting Road and Gippsland Street 0%	100%	0%	100%	430									430																		1 1
Jindabyne - New trunk mains connecting to the		0%	100%	120								†												†	 						
reservoir LV 0% Jindabyne - Trunk main to connect High zone	100%	0%		120	 							 	120											 	 		 				
reservoir LV 0% Jindabyne - Trunk main BWZ reservoir to Barry	100%	0%	100%	0	 					ļ		 												 	 	-	 				
Way 0%	100%	0%	100%	300												300								ļ							
Water Pump Stations Intake Pumping Station (HZ/LZ) - Lake Jindabyne (Copper Tom Point)					 																			 	 	 					
Civil Works 0%	0%	100%		1,850		350					1500													ļ			- 				
M&E 0% Jindabyne - HZ/LZ Intake Extension (Civil Works) 0%	0% 0%		100% 100%	300 250		300	250																	 	 		 				
Intake Pumping Station (BWZ) - Lake Jindabyne (Copper Tom Point)	0,0		100%	0			200					<u> </u>												·			<u>-</u>				
Civil Works 0% M&E 0%	0% 100%	100% 0%	100% 100%	0 1,800	600	600	600																	 	 		 				
Jindabyne - Intake (BWZ)	10070	0 70	10070	0	l		000					 												 	<u> </u>		<u> </u>				
High Lift Pumping Station (HZ/LZ) - Lake Jindabyne (Copper Td 0% Civil Works 0%	0% 0%	100% 100%	100% 100%	600 153			600										153							ļ							
Civil Works 0% M&E 0%	0%		100%	0	 							 					133							 	 						
Building 0%	0%	100%	100%	0	ļ							I												ļ							
Lakewood Pumping Station Civil Works 0%	0%		100%	67						<u> </u>		<u> </u>								<u> </u>	67		<u> </u>	<u> </u>	<u> </u>			<u></u>			
M&E 0%	0% 0%	+	100% 100%	180 10							180										10			ļ	ļ	ļ	-				
Building 0% High Country Estate Pumping Station (Carruthers Road)	U%	100%	100%	10								 									10			 	 	 	 				-
Civil Works 0%	0%	100%	100%	13								ļ										13		ļ	<u> </u>	ļ					
M&E 0% Leesville Pumping Station 0%	0% 0%	100% 100%	100% 100%	0								 												 	 	 	 				
Civil Works 0%	0%	100%	100%	0						ļ		Į													ļ	ļ	[<u>_</u>				
M&E 0% Pumping Station - Upgrade LVPS 0%	0% 100%	100% 0%	100% 100%	260	 					260		 												 	 		 				
Water Reservoirs												ļ																			
HZ/LZ Intake Balance Tank Roof and access structures 0%	0%	100%	100%	0	 																			 	 		 				
Jindabyne High Zone				0								‡																			
Roof and access structures 0% Jindabyne Low Zone	0%	100%	100%	200 0	 		200			 		 												 	 		 				
Roof and access structures 0%	0%	100%	100%	0																				·							
Barry Way Zone (Existing Reservoir 1) Roof and access structures 0%	0%	100%	100%	0 50	 		50					 -												 	 		-				
Barry Way Zone Reservoir 5ML capacity (New Reservoir 2) 0%	100%	0%			-					1000	2000	2000																			
Lakewood Pumping Station Balance Tank Roof and access structures 0%	0%	100%	100%	0	 																			· 	 		-				
Lakewood 0%	0%	100%	100%	0								<u> </u>															- 				
Roof and access structures 0% High Country Estate 0%	0% 0%	100% 100%	100% 100%	0	 																			· 	 		-				
Roof and access structures 0%	0%	100%	100%	0								<u> </u>												·			<u>-</u>				
Leesville (Existing Reservoir 1) 0% Roof and access structures 0%	0% 0%		100% 100%	0	 							ļ												ļ	 		 				
Leesville Reservoir 2.5 ML capacity (New Reservoir 2) 0%	100%			810								810												·			<u>-</u>				
Water Treatment HZ/LZ System					 																			ļ	 	 					
Chlorination System 0%	0%	100%		0								<u> </u>												·			<u>-</u>				
Fluoridation System 250 25%	0%	75%	100%	250 0	<u>-</u>	250						ļ														ļ	-				
Chlorination System 0%	0%	100%		0	<u> </u>							†							 					<u> </u>	<u> </u>		<u> </u>				
Fluoridation System 250 25% Water Filtration Plant 50%	0% 50%	75% 0%		250 20,000		250 500	500	3000	4000	5000	4000	1500	1500						ļ	 -				ļ	 	 	 				
KALKITE	5078	070	13078	20,000			550	3000	4000	5500	7000	7500	7000																		
Water Mains Rising Mains 50%	0%	50%	100%	300	ļ						300																				
Trunk and Reticulation Mains 0%	0%		100%	950							300	<u> </u>	175				175				150			<u> </u>	100 200		<u> </u>	150			
Water Pump Stations Intake Pumping Station - Lake Jindabyne (The Glebe Point) 0%	100%	0%	100%		ļĪ							ļ												ļ	ļ	ļ					
Civil Works 0%	0%	100%	100%	30			30			L			 						 	 				- 		<u> </u>	<u> </u>				
M&E 0% High Lift Pumping Station - Lake Jindabyne (The Glebe Point)	0%	100%	100%	25 0	ļ				25			ļ													ļ	ļ	-				 -
Civil Works 0%	0%		100%	30			30			L		<u> </u>							L		<u></u>		<u> </u>	<u> </u>	<u> </u>						
M&E 0% Building	0%	100%	100%	25					25			ļ												ļ		ļ					
WATER RESERVOIRS												<u> </u>																			
High Lift Pumping Station Balance Tank	00/	1000/	1000/	40	20		20					ļ																			
Roof and access structures 0% Kalkite Village 0%	0% 0%			40 400			20					<u> </u>							<u></u>					 	200 200		 				
Roof and access structures 0%	0%		100%	100			80			<u> </u>																					
Water Treatment Chlorination System 0%	0%	100%	100%	160		160																			 						
Fluoridation System 100%	0%	0%	100%	0						ļ		ļ								 						ļ					
Building 0% Water Filtration Plant 100%	0% 0%	+	100% 100 %	25 1,430			15					 										500	500 430	 	 	 	 				-
NIMMITABEL									40.00			 																			
Nimmitabel filtration system 90% Construction of Lake Wallace 5679 80%	10% 20%	0% 0%		1,000 0					1000			 												 	 	 	 				I
Reservoirs 70%	0%			2,570					70			†											2500		<u> </u>	1					

SNOWY MONARO REGIONA	L COU	NCIL				WATE	R SU	PLY	SERV	ICES	- 30 Y	ear Ca	apital	Works	Prog	ıram																				
	Current Ye	ar	2018	/19									_		Ī																					
CAPITAL WORKS IN 2018\$('000)	-		_0.0			0	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	30
REGION	SUBSIDY	ILOS	GROWTH	RENEW	CHECK	Total	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44 2	2044/45	2045/46	2046/47	2047/48
Telemetry		70%	0%	30%	100%	200		80	İ	İ						Ì								120												
Pump station		70%	0%	30%	100%	770	30	40		l									100	100	l		100										100	100	100	100
Disinfection		70%	0%	30%	100%	180		80	ļ	<u> </u>				l										100												
Water Main replacement (projected)		25%	0%	75%	100%	1,500			ļ	<u> </u>	200			l	250					300					350					400						
Other capital works (projected)	1	50%	0%	50%	100%	20				20											ii-								·							
VILLAGES (BACKLOG)	<u> </u>				†									l															i						7	
Investigation for Michelago Water Supply	†	80%	20%	0%	100%	150	150							 							-								 							
Michelago Water Supply	 	80%	20%	0%	100%	9200			l				200	3,000	3,000	3,000	+			 	-							 	·							
Investigation of Numeralla water supply	†	80%	20%	0%	100%	150	150	l	l	l										l	l							 	†							
Numeralla Water Supply	†	80%	20%	0%	100%	6200		 	l	 				 			200	3000	3000	 	-							 	†							
Investigation of Four Mile water supply	 -	80%	20%	0%	100%	150	150		l					 															 							
New Works - Growth -		 			 			 	·					 															 							
EAST JINDABYNE WATER SUPPLY		 			 																								·						7	
Pumping Stations	 	 			 																								†							
Willow Bay High Level Pump Station	 	0%	100%	0%	100%	111							111																 							
Reservoirs	 	 			 																								 							
Willow Bay High Level Reservoir (0.6ML)		0%	100%	0%	100%	353								353																						
Mains		 			†																								i						7	
Willow Bay High Level Rising Main		0%	100%	0%	100%	200								200															·							
Alpine Sands main extension to serve Coltern S	tage 4	0%	100%	0%	100%	176			 	 				176				+			 								· 							
·	23,079	<u> </u>	TOTAL			153,808	4,012	9,300	11,246	11,241	9,906	11,781	10,101	11,007	8,164	5,103	2,935	5,325	6,331	1,633	3,001	3,781	2,035	2,611	10,181	4,461	4,435	1,181	3,812	1,981	1,456	1,814	1,181	1,431	1,181	1,18
State Government Funding was given to Nimmitabel						,								-			-								-	-	,			,				-	-	<u> </u>
dam and Bombala WTP M&E works																																				
		All		Total Imp	roved LOS	55,746	610	4,425	5,903	7,334	5,361	3,165	2,790	3,605	4,136	2,657	424	2,457	2,527	207	765	990	155	729	658	2,250	1,576	70	2,076	170	70	77	140	140	140	140
Backlog Works have been identified in red font				To	tal Growth	28,536	758	900	1,470	1,553	2,220	5,033	4,668	5,509	2,005	655	95	1,377	655	60	60	60	60	60	570	70	70	70	70	70	70	70	70	70	70	70
				Total	l Renewals	69,527	2,644	3,975	3,873	2,355	2,325	3,584	2,644	1,894	2,024	1,791	2,416	1,491	3,149	1,366	2,176	2,731	1,820	1,822	8,954	2,141	2,789	1,041	1,666	1,741	1,316	1,667	971	1,221	971	97
NSW Health Funds have been committed for							,												ĺ							,						,		,		
Fluoridation plants at Jindabyne, East Jindabyne and																																	/		/ 1/	
Bombala					TOTAL	153.808	4.012	9.300	11.246	11.241	9.906	11.781	10.101	11.007	8.164	5.103	2.935	5.325	6.331	1.633	3,001	3.781	2.035	2.611	10.181	4.461	4.435	1.181	3.812	1.981	1.456	1.814	1.181	1.431	1.181	1.18
			-			,	,-	-,	, -	,	-,	, -	-, -	,	-, -	-,	,	-,-	-,	,	-,	-, -	,	,-	-, -	, -	,	, -	-,-	,	,	,-		, -		
Deputy Premier Barrillaro's commitment for																																				
Bombala and Delegate Water have been included																																				
as subsidised projects							1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22	23	24	25	26	27	28	29	3
Based on public meeting held in Bombala on 9																																				
March 2018																																	\longrightarrow		\longrightarrow	
	1																																			

Snowy Monaro Regional Council Financial Plans for Water Supply and Sewerage



Appendix C Sewerage Capital Works Program

Full Capital Works (Cases 4, 5)

SNOWY MONARO REGIONAL COUNC	IL .			S	SEWER	RAGE	SERV	ICES	- 30 \	Year C	apita	Work	s Pro	gram																		$\overline{}$	\top	\neg
Curren		2018	/19											9																				
CAPITAL WORKS IN 2018\$('000) REGION SUBSI	DY ILOS	GROWTH	RENEW	CHECK	0 Total	2018/19	2019/20	3 2020/21	2021/22	5 2022/23	6 2023/24	7 2024/25	8 2025/26	9 2026/27		2028/29	12 2029/30		14			17 18 034/35 2035			21 2038/39			24	25	26	27 2044/45 2	28	29 2046/47 2	30
ALL SCHEMES	DT ILOU	CROWIII	KEKEW	OHLOR	Total	2010/13	2013/20	2020/21	2021122	2022/23	2023/24	2024/23	2023/20	2020/21	2021120	2020/23	2023/30	2030/31 2	.031/32 2	032/33 20	000/04 2	204/33 2030	2030/3	2037730	2030/33	2033/40	2040/41	2041/42	2042/43	2043/44	2044/43 2	043/40 2	040/47 2	J41140
Telemetry Base Station CMF and RMF	0%	6 0%	6 100%	100%	1,190	20	200	50	50	50	700		20			20			20			20		20)				20			-		
Remote sites	0%	6 0%		100%	1,200		100	100		250		10	10	10	10	10	10	10	10	10	10	10	10 1	0 10		10	10	10	10	10	10	10	10	10
Plant and Equipment	0%	6 0%	6 100%	100%																												_	_	
Vehicles (Included in plant replacement program) Plant and Equipment (incl. In plant replacement program)	0%			100%	0																													
ADAMINABY																																		
Sewer Pump Stations Adaminaby (Nil currently - Allow for SPS in growth areas)	0%	6 100%	6 0%	100%	450						450																					-+		
Sewer Mains																																		
Rising Mains Trunk and Reticulation Mains	0%	6 100% 6 0%		100% 100%	200 1,225			75		150	200	100		100		100		100		100		100	10	0	100			100			100			
Sewer Treatment	070	0	10070	10070	.,			70		100		100		100		100		100		100		100	10		100			100			100			
Siteworks (EP 1000) Preliminary Treatment (Inlet Works)	33%			100% 100%	700 566				299	500																								
Aeration Unit - Civil 42%	33%	6 33%		100%	1,084			769	299																									
Aeration Unit - Mechanical 46%	33%			100%	345			345	4004																									
Aeration Unit -Electrical 12% Sludge Lagoons	33%	6 33% 6 33%		100% 100%	1,201 724				1201 724																							-+	-+	
Effluent Ponds	33%	6 33%	6 33%	100%	413	3			413																									
Tertiary Treatment - Chemical/UV/Filters	33%	6 33%		100%	831				831																									
Electrical SID and PM	33% 33%	6 33% 6 33%		100% 100%	1,201 550			350	1201 200										-+					1	 					-+		-+	-+	-
Concept Study / EIS	33%	6 33%	6 33%	100%	550 500		300																											
Final Design BERRIDALE	33%	6 33%	6 33%	100%	550)	450	100																										
Sewer Pump Stations																																		
Berridale (Nil)																																		
Sewer Mains Rising Mains	0%	6 0%	6 100%	100%	324	1													162	162												-	-	
Trunk and Reticulation Mains	0%	6 0%	6 100%	100%	1,850		100		100		100		100		100		100		100		100		00	150)	150		150		200		200		
Dump Point Sewer Treatment	0%	6 0%	6 100%	100%	75	5		75																										
Siteworks	0%	6 0%	6 100%	100%	0																													
Preliminary Treatment (Inlet Works)	0%	6 0%		100%	0	100			400																									
Aeration Unit - Civil Aeration Unit - Mechanical	0%	6 0% 6 0%		100% 100%	200 1,731				100													86	5.5				865.5							
Aeration Unit -Electrical	0%	6 0%	6 100%	100%	452	2																	22	6			226							
Sludge Lagoon/s and Effluent Ponds / balance tank Tertiary Treatment - Chemical	100%	6 0%	-	100% 100%	200 100				100			100																						
Building	0%	6 0%		100%	0							100																						
Extra Area Lighting and Landscaping	0%	6 0%		100%	50				50																									
Effluent Pumping Stations Recycled Effluent Pumping Station (at STP)	0%	6 0% 6 0%		100% 100%	0																													
Civil Works	0%	6 0%	6 100%	100%	1,100				50						1000																			
M&E UV disinfection	0%	6 0%	6 100% 6 100%	100% 100%	500 350				100														15	100				150	100					
Building	0%	6 0%		100%	350	75			/5															100	1				100			-+	-+	
Effluent Reuse Scheme (Golf Course PS)	33%	6 33%		100%	50									50																				
Chemical Dosing System Miche	33%	6 33%	6 33%	100%	551		300	200						51																				
nume	0.8	0.2	2 0	100%	300					150																								
Provide sewerage facilities in Bredbo BOMBALA	0.8	0.2	2 0	100%	7,200													200	2000	3000	2000											_		
Sewer Pump Stations																																		
Pumping Station renewal	0%			100%	1,550		250																											
New Pump Station (Incl REF) Sewer Mains	0%	6 0%	6 100%	100%	600		500	100																										
Mains renewal	0%	6 0%	10070	100%	6,000		200			200	200	200	200	200	200	200	200	200	200	200	200	200	200 20	0 200	200	200	200	200	200	200	200	200	200	200
New Rising Main Sewer Treatment	0%	6 0%	6 100%	100%	750		500	250																										
Switchboard renewal			100%	100%	0)																												
Telemetry RTU Renewal STP Upgrade Concept study and REF 5	00/ 500/		100%	100% 100%	150 550		150 350										— —								1									
	0% 50% 0% 50%	5 0%		100%	500		500										 		_	-				1					+	+		+		-
SID and PM 10	0% 100%	0%	6 0%	100%	900	200	500																											
STW Augmentation (Construction only) 10 COOMA	0% 50%	25%	25%	100%	8,750	2350	4400	2000																										
Sewer Pump Stations																																		
Pump stations	0%	0%	100%	100%	1,580		80					300			300			300	$-\Gamma$	$-\Gamma$	300			300								\bot	\bot	
Sewer Mains Wastewater mains replacement	10%	10%	80%	100%	9,580		400	400	410	420	430	440		200	210	220	230	240	250	260	270	280	290 30	0 310	320	330	340	350	360	370	380	390	400	410
Wastewater Trunk Main replacement	10%			100%	600								300																					
Sewer Treatment Telemetry	0%	0%	100%	100%	258	3			90			14			16			18			20		2	2		24			26			28		
Testing Equipment	0%			100%	54	9			30			14		25	10			10			20		2	_					20				+	
treatment facility - civil	25%	75%	0%	100%	200		10	20	80		450												10											\Box
treatment facility - electrical treatment facility - mechanical	25% 25%			100% 100%	812 1,070			80	150		150			350		500	 	-	-+	-			60	0	1					-+		-+	-+	-
DELEGATE	2070	10%	0.73		.,	- 10								300									30											
Sewer Pump Stations	F00/	00/	500/	100%	252							400				450																		
Pump Station M&E Sewer Mains	50%	0%	50%	100%	250							100				150																		
Sewer Mains replacement	0%	6 0%	6 100%	100%	500)					200	100	200																					
Sewer Treatment STP Inlet works	50%	0%	50%	100%	500	150	50			300																						=		
STP Intel Works STP Idea Tank	50%			100%	100		30			100									-					1	1						+	-+	-+	-
STP Mech and Elect	50%	0%	50%	100%	600			100			500																							
WHS Improvements Amenities Block	0%			100% 100%	650 450		150	300		200	300						 		-+	-+	-			+	1		\vdash			-+		-+	-+	
, anomico biook	0 70	1 570	10070	10070	-50		100	000																										

SNOWY MONARO REGIONAL C				SE	EWER	RAGE SERV	/ICES	- 30 \	Year C	apital	Work	s Prog	ram																		
CAPITAL WORKS IN 2018\$('000)	Current Year	2018 /	/19		0	1 2	3	4	5	6	7	8	9	10 11	12	13	14 1	15 16	17	18	19	20	21	22	23	24	25	26	27	28	29 30
REGION	SUBSIDY ILOS	GROWTH	RENEW	CHECK	Total	2018/19 2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26 2	026/27 2						/34 2034/3	5 2035/36	2036/37		2038/39			2041/42 2	2042/43 2	2043/44 2	2044/45 204	45/46 204	46/47 2047/4
EAST JINDABYNE																															
Sewer Pump Stations																															
Pumping Station (EJ1, Rush's Bay Avenue)					0																										
Civil Works	0		100%	100%	0																										
M&E	0		100%	100%	243															243											
Building	0	0%	100%	100%	0																										
Pumping Station (EJ2, Rush's Bay Avenue) Civil Works		1% 0%	100%	100%									-+						_								+	-+			
M&E		770	100%	100%	242										-				24	2							+				-
Building			100%	100%	242								-+						24.										+		
Pumping Station (EJ3, Jerrara Drive)	·	770	10070	10070																											
Civil Works	0	0%	100%	100%	0								-														-				
M&E	0	1% 0%	100%	100%	306							-	-					3	306								_	-			
Building	0	0%	100%	100%	0														-												
Pumping Station (EJ4, Jerrara Drive/Kosciuszko Road)																															
Civil Works (Overflow)	0	0%	100%	100%	500					500																					
M&E	0	0%	100%	100%	0																										
Building	0	0%	100%	100%	0																										
Pumping Station (EJ5, Kunama)																															
Civil Works (Overflow)	0	0%	100%	100%	500					500									1			1		1	1						
M&E	0	0%	100%	100%	0																										
Building	0	0%	100%	100%	0																										
Pumping Station (EJ6, Alpine Sands)															\perp					$\perp \Box$											
Civil Works		0%	100%	100%	0																										
M&E		0%	100%	100%	282																							282			
Building	0	0%	100%	100%	0																										
Sewer Mains					0%																										
Rising Mains		0%	100%	0%	750				400											1				350							
Trunk and Reticulation Mains	0	0%	100%	0%	1,200								200			200									200			200			200 20
JINDABYNE																															
Sewer Pump Stations																															
Pumping Station (JS1, Snow Way Estate)		missioned	4000/	4000/	0								$\perp \perp \downarrow$																		
Civil Works		0%	100%	100%	0								-						_												
M&E		0% 0%	100%	100%	0																										
Building	0	0%	100%	100%	ď							-	-						_	_							-	+			
Pumping Station (JS2A, Kalkite Street)	50	1% 50%	0%	100%	600	400	200					-	-						_	_							-	+			
Civil Works M&E	0		100%	100%	200	100	200 100					-	-														-+	-+	-		
Building			100%	100%	200	100	100								-					1							+				-
Pumping Station (JS2, Bowling Club)			50%	100%	0										-					1							+				-
Civil Works		1% 50%	50%	100%	0								-+																+		
M&E		1% 50%	50%	100%	1,300								-										650				-	650			
Building		0%	100%	100%	0							-	-										000				_				
Pumping Station (JS3, Cobbon Crescent)												-	-														_				
Civil Works	0	1% 0%	100%	100%	0																										
M&E	0	0%	100%	100%	500										00 400																
Building	0	1% 0%	100%	100%	0																										
Pumping Station (JS4, Kosciuszko Road)																															
Civil Works	0	75%	25%	100%	1,600	200		500	500				400																		
M&E	0	75%	25%	100%	500																					500					
Building	0	0%	100%	100%	0																							$\perp \perp \Gamma$			
Pumping Station (JS5, The Station Resort)																															
Civil Works	0		100%	100%	0															1								\longrightarrow			
M&E	0		100%	100%	900	500						400						_		-								\longrightarrow			
Building		0%	100%	100%	0		450	4500	500											-											
Pumping Station (JS6, Leesville/Sport and Rec Centre)	0		0%	100%	2,150		150	1500	500											-											
Civil Works		100%	0%	100%	0													-	_	1							\longrightarrow	-+	$-\!+\!$		
M&E		9% 50%	50%	100%	0														_	1								-+	$-\!\!\!\!+\!\!\!\!\!-$		
Building Pumping Station (JS7, Cobbon Estate COB)	+ ⁰	0%	100%	100%	0										-			_	-	-								$-\!+$	+		
Pumping Station (JS7, Cobbon Estate COB) Civil Works	+ + -	1% 0%	100%	100%	100					100		-	+		-			-		+								-+	+		
M&E		0% 0% 0% 0%	100%	100%	397					150						I		-	-	+				247			-+	-+	-+		-
Building		1% 0%	100%	100%	39/					150					_				+	1				241			-+	-+	-+		
Sewer Mains	1 1	7,0 0 /0	10076	10070	9																										
Rising Mains	0	0%	100%	100%	500					500																	-	-+			
Trunk and Reticulation Mains		1% 0%	100%	100%	6,100	500 300	500	300	500		500	500	500		50 250	250			20	0 200	200	- 1					-+	200	200	250	
Upsize 505m of main to DN225 m/h FE8 to m/h FA20			0%	100%	292		300	300	500	500	000	505	300		200	200		2	292	200	200						+				
Sewage Treatment (JSTP)	1	1																													
Siteworks	1	100%	0%	100%	2,216				1000	1216																					
Preliminary Treatment (Inlet Works)		1% 0%	100%	100%	,0				.000																		-+	-+	+		
Aeration Unit - Civil		100%	0%	100%	5,100						1000	1500	2000	600													-+	-+	+		
Aeration Unit - Mechanical		9% 50%	50%	100%	1,000									1000								- 1		- 1			-+	- $+$	-		1
Aeration Unit -Electrical		9% 50%	50%	100%	500									500																	
Sludge Lagoon/s and Effluent Ponds		100%	0%	100%	500										00																
Tertiary Treatment - Chemical	0	0%	100%	100%	700								200					5	500			1	1	1					<u> </u>		
remary freatment - Chemical				1000/									-																		i i
Building	0	0%	100% 100%	100%	U								100					I							ı	l l				ı	

	Current Yea	ar	2018	/19		SEWEF								T															1					\rightarrow
CAPITAL WORKS IN 2018\$('000)						0	1	2	3	4	5	6	7	8	9			12		4 1			18	19	20				24		26	27	28	29
REGION	SUBSIDY	ILOS	GROWTH	RENEW	CHECK	Total	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30 2	30/31 2031	1/32 203	2/33 2033/3	4 2034/35	2035/36	2036/37 2	2037/38 2	2038/39	2039/40	2040/41	2041/42	2042/43	2043/44	2044/45	2045/46 2	2046/47
KALKITE																																		
Sewer Pump Stations																																		
Pumping Station (KS1, Lotus Avenue) SID and PM		0%	0%		100%	0																								╙				
Civil Works		0%	0%		100%	582	282					300																		╙				
M&E		0%	0%	100%	100%	716						150														283				283				
Building	1 1	0%	0%	100%	100%	0																							1 1	1 1	1	,		
Pumping Station (KS2, Lotus Avenue)																															1			
Civil Works		0%	0%	100%	100%	150							150																		\cap			
M&E		0%	0%	100%	100%	866	150						150													283				283	\cap			
Building		0%	0%	100%	100%	0																									ſ	,		
Pumping Station (KS3, Gardenia Court)		0%	0%	100%	100%	300											300														1	,		
Civil Works		0%	0%	100%	100%	150							150																		1	,		
M&E	1 1	0%	0%	100%	100%	1,206	250						250			-										353				353		,	-+	
Building	1 1	0%	0%	100%	100%	.,	200									-													\vdash		1 1			
Sewer Mains																														-				
Rising Mains	1	0%	0%	100%	100%	300								150		-						_					150		\vdash	$\overline{}$		-		$\overline{}$
Trunk and Reticulation Mains	+ +	0%	0%		100%	850								150		+						-	1				130	150	+	$\overline{}$	150			200
Sewage Treatment - KSTP (P1000 Pasveer Channel)		0.70	U 70	100%	100 76	030								150														100			100			200
		0%	0%	100%	100%																								-					
Siteworks and SID	1 1	0%	0,10	100%	100%	0												250		-		+	\vdash	+					\longrightarrow	\vdash	++		\longrightarrow	
Preliminary Treatment (Inlet Works)	1 1		0%			350												350				1							↓	\vdash	↓			
Aeration Unit - Civil	1 1	0%	50%	50%	100%	0												050	450	400		1							+	\vdash	↓			
Aeration Unit - Mechanical	1 1	0%	50%	50%	100%	800												250		400			├						↓	\vdash				
Aeration Unit -Electrical	_	0%	50%	50%	100%	310												150	160			1							↓	\vdash	↓			
Sludge Lagoon/s and Effluent Ponds	1 1	0%	0%	100%	100%	400														_	200	1	1						4	igspace	4			
Tertiary Treatment - Chemical	1	0%	0%		100%	100														100			oxdot						ullet	-				
Building		0%	0%	100%	100%	100															100													
Effluent reuse scheme - ultimate		0%	0%	100%	100%	1,000																250		750										
NIMMITABEL		7																											I					
Wastewater mains replacement		0%	0%	100%	100%	850				200					250					200			\Box							200				
Treatment facility - E&M	İ	25%	75%	0%	100%	570	20	20			150	150					İ					9		10	175		11			12			13	
Treatment facility - civil		25%	75%	0%	100%	300																			300						ſ	,		
Pump stations	1	25%	75%	0%	100%	50											- 1					1		1	50				\vdash					
Telemetry	1	25%	75%	0%	100%	25				20															5							,		
TYROLEAN																																		
Sewer Pump Stations																																		
Pumping Station (TV1, Alpensee Weg)		-	$\overline{}$													-													$\overline{}$	$\overline{}$		-	$\overline{}$	-
Civil Works	+ +	33%	33%	33%	100%	0										-					-	1	1						\vdash	\vdash	$t \rightarrow t$			
M&E	1 1	0%	0%	100%	100%	200				200						+													+	\vdash	+	-+		
	1 1	0%	0%	100%	100%	200				200			-		-	-						+	1						\vdash	\vdash	+	-+		
Building		0.70	0 78	10076	100 %	U										\longrightarrow						-	1		-				\longrightarrow	\vdash	++			
Pumping Station (TV2, Rainbow Beach)		00/	00/	4000/	4000/											\longrightarrow						-	1		-				\longleftarrow	\vdash	++			
Civil Works	1 1	0%	0%	100%	100%	- 0										\longrightarrow					_	000							\longrightarrow	\vdash	+-+	+		
M&E		0%	0%	100%	100%	300																300	1						4	┷				
Building		0%	0%	100%	100%	0														\perp	\perp	\perp							ldot	-				
Sewer Mains																																		
Trunk Mains		0%	0%	100%	100%	500																							$oxed{oxed}$	╙				250
New Works - Growth -	1																						oxdot						ullet	-				
Pumping Stations		L																				1							$oxed{oxed}$	ldot	11		L	
(Refer JSPS6 and JSPS4)		0%	100%	0%	100%	0																							T	Т	1T			
Mains		0%	100%	0%	100%	0													[\Box						ᆫᄀ	ᆫᄀ	<u> </u>			
VILLAGES																																		
Investigate the feasibility to allow on site sewerage service to																																		
new urban areas		80%	20%	0%	100%	175	75	100																					╙	ldot				
Investigate provision of sewerage for Michelago	I	80%	20%	0%	100%	400			400														<u> </u>							!				
Provide sewerage facilities in Michelago		80%	20%	0%	100%	10,150				450	450	250	3000	3000	3000										[\bot					
Investigate provision of sewerage for Numeralla		80%	20%	0%	100%	6,550															55	0 2000	4000						1 1	\Box	1 1	, —		
Provide sewerage facilities in Numeralla	1 1	80%	20%	0%	100%	150														150												,		
	1 1	0%	0%		100%	0																										,		
TOTAL	1	-				123,415	8,295	9,910	8,364	9,844	6,070	7,796	6,664	6,630	7,936	3,936	2,350	1,940	1,828 3,	792 4.	032 4,55	7 3,602	5,919	2,588	1,620	2,199	1,472	1,992	1,460	1,847	2,262	890	1,091	1,260
	1	$\overline{}$	\rightarrow																															$\overline{}$
		-+		Total Impro	oved LOS	32,018	2,332	3,627	2,322	2.085	926	568	2,594	2,430	2,571	21	222	23	184 1.	745 2	426 2,36	1 1.628	3.232	183	164	32	36	34	35	39	37	38	42	40
	1	-+		Total Grow															219		626 54				429	357			410					40
	+ +	-		Total Rene		63.405	4,502	4.751	4,509	3.944	2 828	5.044	2.426	2,070	2.119	2.544	1,231	1.694	1,425 1,	392	980 1,65	2 1.546	1.851	1.918	1.028	1.810	1.395	1,924	1.015	1 763	1.863		1,000	
	1																	.,001				1,010	.,001	.,010									.,000	
		+		TOTAL	T T	123,415	8.295	9,910	8.364	9.844	6.070	7.796	6.664	6,630	7,936	3,936	2.350	1.940	1.828 3	792 4	032 4 55	7 3 602	5.919	2.588	1.620	2.199	1.472	1,992	1.460	1.847	2.262		1.091	1.260
				TOTAL		123,415	8,295	9,910	8,364	9,844	6,070	7,796	6,664	6,630	7,936	3,936	2,350	1,940	1,828 3,	792 4,	032 4,55	7 3,602	5,919	2,588	1,620	2,199	1,472	1,992	1,460	1,847	2,262		1,091	1,260
				TOTAL		123,415 30	8,295	9,910	8,364	9,844	6,070	7,796	6,664	6,630	7,936	3,936	2,350	1,940	1,828 3,	792 4,	032 4,55	7 3,602	5,919	2,588	1,620	2,199	1,472	1,992	1,460	1,847	2,262		1,091	1,260

Snowy Monaro Regional Council Financial Plans for Water Supply and Sewerage



Appendix D Water Supply FINMOD Outputs Base Case

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SMRC Water Supply: SMRC Water Base Case Operating Statement

FINMOD WaterOz

						,	B																		
	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24 2	2024/25 2	2025/26 20	2026/27 20	2027/28 20:	2028/29 203	2029/30 203	2030/31 2031/32	1/32 2032/33	2/33 2033/34	3/34 2034/35	/35 2035/36	36 2036/37	7 2037/38	8 2038/39	9 2039/40	2040/41	2041/42	2042/43	
EXPENSES											l					l									
Management Expenses	1202	1269	1275	1284	1292	1299	1306	1314	1321	1328	1335	1343	-			-		-	-		-	-		1439	
Administration Engineering and Supervision	839 363	886 383	891 385	897 387	390 390	907 392	912 394	918 396	923 398	928 400	933 402	939 404	944 406	949	954 (960 8	965 97 415 47	970 975 417 419	5 981 9 421	986	6 991 3 425	1 996 5 427	1002 429	1007 432	
Operation and Maintenance Expenses	3235	3742	3763	3786	3808	3829	3852	3873	3894	3916	3939													4244	
Operation Expenses	1390	1608	1617	1626	1635	1645	1654	1663	1672	1681	1691	1700	1709 1	1718 1	1727 1	1737 17	1746 175	1755 1764	1773	3 1783	3 1792	1801	1810	1819	
Maintenance Expenses Energy Costs	273	316	319	321	323	325	328	330	332	335	337							-						369	
Chemical Costs	22	25	25	25	25	25	25	25	25	25	25							25 25						25	
Purchase of Water	0	0	0	0	0	0	0	0	0	0	0		0			0	0						0	0	
Depreciation	3466	3557	3657	3757	3818	3874	3927	4008	4029	4045	4051	4054	4064 4		•	4092 41			34 4165		13 4183	3 4213	4216	4216	
System Assets	3378	3447	3545	3629	3680	3726	3773	3839	3862	3868		3885		3891 3	3803 36		3922 393	3933 3951		4008	·	·	·	4046	
Plant & Equipment	88	110	112	128	138	148	154	171	167	178	178													170	
Interest Expenses Other Expenses	26	20	4 0	80	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	00	
TOTAL EXPENSES	7929	8589	8710	8836	8917	9005	9085	9197	9244	9290	9324	9358	9398	9424 9	9467 99	9513 95	9549 95	9583 9641	.1 9702	2 9750	9778	3 9837	9870	6686	
REVENUES																									
Rates & Service Availability Charges	2871	2891	2908	2928	2949	2969	2987	3006	3024	3044														3330	
Residential Non-Residential	2051 820	2064 826	2077 831	2091 837	2106 843	2120 849	2133 854	2147 859	2160 864	2174 870	2189 876	2203	2215 2 886	2230 2 892	2242 2; 897 (2257 22 903 8	2271 228 908 9	2285 2298 914 919	R 2311 9 925	1 2325 5 930	5 2338 0 935	3 2353 5 941	2367 946	2378 951	
;	Cucu	2002	2,00	2963	000	9	707	403	9	9														000	
User Charges	3281	3302	3324	3346	3370	3393	3412	3436	3456	3478	3502	3523		3568 3	3587 34			3655 3676		3720	3740			3806	
Sales of Water: Non-Residential	1969	1982	1994	2008	2022	2036	2048	2061	2074	2087			2126 2			2167 27	2180 219	93 2206	6 2219			4 2259	2272	2283	
Extra Charges	82	83	83	84	84	82	82	98	98	87	87	88	88	68	06	06	91	91 93	6 26	63 6	93 93	3 94	95	92	
Interest Income	430	416	361	332	311	247	179	116	88	111	136	160	173	202	222	222	243 26	263 178	141	130	164	171	194	229	
Offier Revenues	200	2	200	200	000	- 8	707	207	t ON	200	000	200												077	
Grants	37	4036	5236	5035	1035	34	34	33	32	31	31	30	30	29	29	28								24	
Grants for Acquisition of Assets	0 22	4000	5200	5000	1000	0 8	0 %	0 %	0 %	0 5	0 5	0 6	0 6	0 8	0 00	0 8	0 8	0 70	0 90	0 90	0 0 96	0 6	0 6	0 6	
Pensioner Rebate Subsidy Other Grants	0	g 0	90	g 0	, 0	, 0	, 0	g o	y 0	, 0	, 0	g 0	9 0	s 0	67	0 0								4 0	
Contributions	279	279	279	279	279	279	279	279	279	279	279	279												279	
Developer Charges	279	279	279	279	279	279	279	279	279	279	279	279	279	279	279	279		79 279	9 279		9 279	9 279	279	279	
Developer Provided Assets Other Contributions	0	00	00	0 0	00	00	00	0 0	00	00	00	00					00	00		00				00	
TOTAL REVENUES	9145	13186	14382	14208	10250	9244	9227	9219	9246	9322	9408		9549 9	6 6896	.6 6026	96 6926	9843 99	9921 9887	9066 2	6 9951	1 10036	10104	10181	10266	
OPERATING RESULT	1216	4597	5672	5373	1333	242	141	23	7	32	84	128		215	241	255	294 3	338 247			1 258	3 267	312	368	
OPERATING RESULT (less Grants for Acq of	1216	297	472	373	332	242	141	23	7	32	84	128		215	241	255		338 247	7 204	4 201	1 258	3 267	312	368	
Assets) Printed 24/01/2019 Valu	Values in 2018/19 \$'000	000.5																					Page	-	

SMRC Water Supply: SMRC Water Base Case Case

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	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35 2	2035/36 2	2036/37 20	2037/38 20	2038/39 203	2039/40 20	2040/41 20	2041/42 20	2042/43
Cashflow From Operating Activities																									
Receipts	C	C	o c	r C	0.00	9	C	0	27		0	0	0	C	0	000	0	9	0	2		c c	2.0	0	
nates and on all yes Interest Income	430	416	361	332	311	247	179	116	89	111	136	160	173	202	222	222	243	263	178	141		164	171	194	229
Other Revenues	196	197	198	199	200	201	202	203	204	205	206	207	208	509	210	211	212	213	214	215			218	219	220
Grants	37	4036	5236	5035	1035	34	34	33	32	31	31	30	30	59	29	28	28	27	56	56			24	24	24
Contributions Total Receipts from Operations	279 9145	279 13186	279 14382	279 1 4208	279 1 0250	279 9244	279 9227	279 9219	279 9246	279 9322	279 9408	279 9486	279 9549	279 9639	279 9709	279 9769	279 9843	279 9921	279 9887	279 9906	279 9951 1	279 1 0036 1	279 1 0104 1	279 I 0181	279 0266
Payments																									
Management	1202	1269	1275	1284	1292	1299	1306	1314	1321	1328	1335	1343	1350	1357	1365	1373	1380	1387	1394	1402	1409	1416	1423	1431	1439
Operations (plus WC Inc)	3346	3854	3876	3898	3921	3942	3962	3987	4009	4031	4054	4077	4100	4121	4143	4167	4189	4209	4233	4255		4300	4323	4345	4367
Interest Expenses Other Expenses	26 0	50	4 c	∞ ⊂	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0	0 0
Total Payments from Operations	4274	5143	5165	5191	5213	5241	5271	5301	5330	5359	5389	5420	5450	5478	2508	5540	5570	2597	5627	2657	2688	5716	5746	5776	9089
Net Cash from Operations	4571	8043	9216	9018	5037	4003	3955	3919	3916	3963	4018	4065	4098	4162	4200	4229	4273	4324	4261	4249	4263	4320	4358	4405	4461
Cashflow from Capital Activities																									
Receipts																									
Proceeds from Disposal of Assets	66	26	22	112	09	23	22	117	0	91	69	64	64	64	64	64	64	64	64	64	64	64	64	64	64
Payments Acquisition of Assets	3793	9044	10792	8430	6027	6919	6004	6709	3665	2255	2963	2475	3481	1783	3152	3931	2185		10332	4611			3962	2131	1606
Net Cash from Capital Activities	-3694	-9018	-10770	-8317	-5967	9989-	-5947	-6592	-3665	-2164	-2894	-2411	-3417	-1719	-3088	-3867	-2121	-2696	-10268	4548	-4521	-1268	-3898	-2067	-1542
CashFlow from Financing Activities																									
Receipts																									
New Loans Required	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
<u>rayments</u> Principal Loan Payments	82	88	92	72	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
Net Cash from Financing Activities	ę	₩	-92	7-	0	0	0	0	0	0	0	0	0	•	•	0	0	0	0	•	0	0	0	0	0
TOTAL NET CASH	792	-1062	-1646	629	-930	-2863	-1992	-2674	251	1799	1124	1655	681	2442	1113	362	2152	1628	-6007	-298	-258	3052	459	2338	2919
Current Year Cash	792	-1062	-1646	629	-930	-2863	-1992	-2674	251	1799	1124	1655	681	2442	1113	362	2152	1627	-6007	-298				2338	2919
Cash & Investments @Year Start Cash & Investments @Year End	15696 16488	16086 15023	14657 13011	12694 13323	12998 12067	11773 8910	8693 6701	6537 3864	3770 4021	3923 5722	5582 6707	6543 8198	7998 8679	8467 10910	10644 11756	11469	11543 13695	13361 14989	14623 8616	8406 8107	7910 7652 1	7465 1 10517 1	10261 1 10720 1	10459	12484 15403
Capital Works Funding:																									
Internal Funding for New Works (\$'000)	918	824	1673	888	2581	3198	3258	4614	1641	312	319	834	182	267	825	1050	215	789	1228	2320	1646	140	2146	240	140
Internal Funding for Renewals New Loans	2644	3975	3873	2355	2325	3584	2644	1894	2024	1791	2416	1491	3149	1366	2176	2731	1820	1822	8954	2141	2789	1041	1666	1741	1316
Grants	0 0 0	4000	5200	5000	1000	0 0	0 0	0 0	0	0 0 5	0 27.38	0 0	0 6	0 0	0 6	0 226	0 0 25 00	0 25	0 0	0 7461	0 0 438 F	0 6	0 0 0	0 2	0 04156
lotal Capital Works	2000	66.50	2	7470	0000	70 10	2000	8	3	1	3	6363	522	3	9	5	222	2	70101	5	ŝ	5	7 000	5	2

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Statement of Financial Position

					1)	; ;				ı												
	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27 2	2027/28 2	2028/29 20	2029/30 203	2030/31 203	2031/32 2032/33	/33 2033/34	/34 2034/35	35 2035/36	3 2036/37	2037/38	2038/39	2039/40	2040/41	2041/42	2042/43
Cash and lovice impate	16336	14007	12020	2010	72,07	8070	6724	2827	0808	и и	6450	7876	8278	10325 110	11036 100	100es 1257s	76 13801	72/0	2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	808	u u	0630	10304	12760
Receivables	3749	3771	3793	3815	3837	3859	3880	3902	3924	3945	3967									4185	4207	4229	4250	4272
Inventories	0	0	0	0	0	0	0	0	0	0	0									0	0	0	0	0
Property, Plant & Equipment	97458	102838	109870	114353	116429	119351	121304	123824	123401	121466	120260 1	118569 11	117878 115	115493 114466	466 114205	205 112196	96 110758	8 116865	117225	117542	114605	114279	112118	109433
System Assets (1)	94163	99515	106716	111330	113555	116611	118741	121410		119448 1	118310 1		116194 113	113936 113035	35 112897	1110111	11 109688	8 115918	116396	116822	113993	113765	111702	109112
Plant & Equipment	3295	3323	3153	3024	2874	2740	2564	2414	2189	2018	1950	1819	1684 1	1557 14	1431 13	1308 1185	85 1070	0 947	829	720	616	514	416	321
Other Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
TOTAL ASSETS	117543	121533	126692	131590	132420	132182	131909	131563	131255	130966 1	130679 1	130404 13	130107 129	129850 129557	557 129248	248 128970	70 128679	9 128256	127940	127626	127371	127047	126759	126465
LIABILITIES																								
Bank Overdraft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0					0	0	0	0	0
Creditors	74	74	74	74	74	75	92	77	11	78	78	62	79	79	79					82	82	82	83	83
Borrowings	264	170	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	0	0	0	0	0
Provisions	0	0	0	0	0	0	9	0	0	0	0	0	0	0	0					0	0	0	0	0
TOTAL LIABILITIES	338	244	148	47	47	75	92	‡	1	78	78	79	79	62	62	62	8 62	80 81	81	82	85	88	83	83
NET ASSETS COMMITTED	117205	121289	126545	131516	132346	132107	131833	131486	131177	130889 1	130601 1	130326 130	130028 129	129771 129477	177 129168	128890	90 128599	128175	127858	127544	127289	126964	126676	126382
EQUITY Accumulated Operating Result	98805	100992	104201	107032	105754	103417	101036	98595	96191		91671		87530 85	85610 837		81976 80270	70 78650		75305	73669	72130	70638	69227	90629
Asset Revaluation Reserve	18552	20906	23456	26259	29256	32390	35688	39130	42738	46430	50159	53945 5	57775 61		65609 69602	302 73690	90 77810	3 81982	86502	91154	95939	100725	105621	110548
TOTAL EQUITY	117357	121388	126527	131416	132259	132045	131810	131513	131269	131055 1	130855 1	130677 13	130489 130	130356 130197	130034	34 129910	10 129787	129543	129415	129298	129251	129145	129082	129025
(1) Notes to System Assets Current Replacement Cost Less. Accumulated Depreciation Written Down Current Cost	207133 112970 94163	211957 112442 99515	218830 112113 106716	224717 113388 111330	228299 114743 113555	231496 114885 116611	234755 116014 118741	239369 117960 121410	241010 119798 121212	241322 2 121874 1 119448 1	241640 2 123330 1 118310 1	242474 24; 125724 12! 116750 11!	242656 242 126462 128 116194 113	242924 243749 128988 130714 113936 113035	749 244799 714 131902 335 112897	799 245014 302 134004 397 111011	14 245803 04 136115 11 109688	3 247030 5 131112 8 115918	249350 132955 116396	250997 134174 116822	251137 137144 113993	253283 139518 113765	253523 141822 111702	253664 144552 109112

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SMRC Water Supply: SMRC Water Base Case Performance Indicators

FINMOD WaterOz

	2018/19	2019/20 2	2020/21	2021/22	2022/23	2023/24	2024/25 2	2025/26 2	2026/27 2	2027/28 2	2028/29 20	2029/30 203	2030/31 203	2031/32 203	2032/33 203	2033/34 203	2034/35 2035/36	36 2036/37	37 2037/38	38 2038/39	39 2039/40	0 2040/41	1 2041/42	2042/43	
Typical Residential Bills	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720	720 7:	720 7:	720 7:	720 7.	720 720	0 720	0 720	720	
Average Residential Bills (2018/19\$)	692	692	692	693	693	694	693	694	694	694	969	695	969	969	969	269	19 269	19 269	19 269	9 269	869 869	8 698	869 8	869	
Mgmnt Cost / Assessment (2018/19\$)	139	146	146	146	146	146	147	146	146	147	146	146	146	146	146	146	146 1	147 1	146 1	146 1	146 146	6 146	9 146	147	
OMA Cost per Assessment (2018/19\$)	514	578	277	578	577	277	578	222	21.5	577	277	578	578	277	578	578	578 5	578 5	578 5	578 5	578 578	8 578	8 578	578	
Operating Sales Margin (%)	9.32	2.30	1.42	0.56	0.24	90.0-	-0.42	-1.03	96:0-	-0.86	-0.56	-0.34	-0.24	0.15	0.20	0.35	0.53 0.	0.78 0.	0.71 0.1	0.64 0.	0.72 0.95	96.0	1.17	1.38	
Economic Real Rate of Return (%)	0.83	0.20	0.11	0.04	0.02	0.00	-0.03	-0.08	-0.07	-0.07	-0.04	-0.03	-0.02	0.01	0.02	0.03	0.05 0.	0.07 0.0	0.06 0.0	0.05 0.	0.06 0.08	8 0.08	8 0.10	0.13	
Debt Service Ratio	0.01	0.01	0.01	0.01	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	00.00	0.00	
Debt/Equity Ratio	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	00:00	0.00	
Interest Cover	47.77	30.14	34.07	45.67	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00 0.00	0.00	0.00	0.00	
Return on capital (%)	1.06	0.59	0.58	0.56	0.32	0.18	0.11	0.02	0.00	0.02	90.0	0.10	0.12	0.17	0.19	0.20	0.23 0.	0.26 0.	0.19 0.	0.16 0.	0.16 0.20	0 0.21	1 0.25	0.29	
Cash and Investments (2018/19\$'000)	16488	15023	13011	13323	12067	8910	6701	3864	4021	5722	2029	8198	1 6298	10910 17	11756 1	11832 13	13695 14989		8617 811	8108 76	7652 10517	7 10720	0 12797	15403	
Debt outstanding (2018/19\$'000)	264	170	73	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
Net Debt (2018/19\$'000)	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	

Snowy Monaro Regional Council Financial Plans for Water Supply and Sewerage



Appendix E Sewerage FINMOD Outputs Base Case

SMRC Sewerage: SMRC Sewerage Base Case

FINMOD WaterOz

Operating Statement

Particle Par	1.		2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28	2028/29	2029/30	2030/31	2031/32	2032/33	2033/34	2034/35	2035/36	2036/37	2037/38	2038/39	2039/40		2040/41	040/41 2041/42
The control of the co	municum terminal province and the control of the co	EXPENSES Management Expenses	921	974					,-		1017	1024	1030	1036	1042	1049	1055	1061	1068	1075	1081	1087	1093	-	100	100 1106	,-
consistency of the control of the co	mathement control of the control of	Administration Engineering and Supervision	727	769							805 212	811 213	816 214	821 215	826 216	832	837 218	842 219	847 221	853	858	863 224	868 225	874 226		879	
1 1 1 1 1 1 1 1 1 1	manichement of the control of the co	Operation and Maintenance Expenses	3505	4057	•	,		,	•	,	4279	4304	4331	4356	4381	4408	4432	4458	4482	4505	4534	4560	4586	4611		4634	4634 4664
The control of the co	Light state of the control of the co	Operation Expenses	1747	2022	.,						2110	2123	2136	2148	2161	2174	2186	2199	2211	2224	2237	2249	2262	2275		2287	
Later and the control of the control	Continue Continue	Maintenance Expenses	1247	1443			_				1508	1517	1526	1535	1544	1554	1563	1572	1581	1590	1600	1609	1618	1627		1636	
Light continuity of the contin	State Stat	Energy Costs Chemical Coets	384	444 147							506	508 156	512	514	516	519	521	524 163	526 164	529 166	531	534 168	537	539 170		171	
Accompany (a) (a) (a) (a) (a) (a) (a) (a) (a) (a)	Accompany 151 151 151 151 151 151 151 151 151 15	Depreciation	2606	2715	.,	.,	•	٠,		(,)	3166	3225	3176	3178	3170	3181	3194	3208	3184	3214	3239	3238	3259	3259		3259	3259 3265
Legistration 15 165 165 269 269 275 284 37 389 389 389 389 389 389 389 389 389 389	LEGIONNIA SERIO SE	System Assets	2453	2527	2577	2655					2809	2828	2844	2847	2851	2855	2856	2861	2862	2862	2871	2880	2885	2886		2887	
parising the property of the p	maticularity of the control of the c	Plant & Equipment	153	188							357	396	332	331	319	326	338	347	322	352	367	358	373	373		372	
LLS. LLS.	LESS STATE S		c	c								9	67.4	2 10	203	4	6	757	5	5	908	0 10 0	200	900		5	
Light Ligh	Light state Light state	Interest Expenses Other Expenses	0 0	0				4				000	6/4 0	0	0	0	0	0 0	0	0	0 0	0 0	5 5 0	0 0		0	0 0
ILEA	Expression Color	TOTAL EXPENSES	7032	7745		8227					9906	9208	9211	9223	9199	9197	9194	9194	9155	9199	9260	9243	9272	9257	6	9239	239 9234
2.2. 2.2.	Signation state of the control of th	DEVENIES																									
single-contanion purpose 250 250 250 250 250 250 250 250 250 250	Secretalization compass (22) (25) (25) (25) (25) (25) (25) (25)		i	i								ļ	Ì	i	i	i	Î		į						- 7		
	substituting the parameter of the parame	Rates & Service Availability Charges	7250	/305								////	2//	/821	/8/1	/35/	8/6/	8025	8078	8130	8185	8236	828/	8340	20	8387	
sea Changes	The control of the co	Residential	6210	6257								6610	6655	6698	6741	6790	6833	6874	6920	6963	7011	7055	7097	7143	<u>`</u>	7184	184 7229
147 148 149 149 149 149 149 149 149 149 149 149	14 146 146 150 151 152	Non-Residential	1040	1048								7011	<u>0</u>	1123	671.	113/		7611	60.1	/911	6/11	787	80	61.	-	5	
stand Changes	The standistination of Assatiation and Assatia	Trade Waste Charges	147	148									157	159	159	160	161	162	164	164	165	166	168	168	_	170	
1	Interest House Hou	Other Sales and Charges	0 7	0 7									0 7	0 4	0 4	0	0 9	0 9	0 [0 [0 [0 0	0 0	0 0		0 6	0 0
Homome Ho	143 115	Extra Charges	<u>.</u>	G		76					ñ	<u>¥</u>	<u>v</u>	£	£	o o	000	o C	6	2	20	œ A	œ A	S C		50	
Total Charles Total Charle	10 Acquisition of Asserts 2002 3004 1 204	Interest Income	434	312			•	,			34	8 6	35	40	36	40	33	28	24	28	33	33	30	33		26	26 31
2042 3041 2041 2041 40 39 39 39 39 39 39 39 39 39 39 39 39 39	104. Solution of Asserts 200, 3000 2000 2000 2000 2000 2000 2000	Other Revenues	06	0							000	<u> </u>	9	007	/67	907	RC7	790	107	707	703	707	607	700	۷.	ò	
1ct Acquaision of Assets 2000 2000 2000 2000 2000 2000 2000 20	The combination of Asserts 2000	Grants	2042	3041							37	36	35	35	34	33	33	32	32	31	30	30	59	29		58	
A contributions and the contributions and the contributions are as a contribution and the contributions and the contributions are as a contributions and the contributions are as a contributions and the contributions are as a contributions and the contributions are as a contributions are as a contributions are as a contributions are as a contributions are as a contributions are as a contribution and the contributions are as a contribution and the contributions are as a contribution and the contributions are as a contribution and the contribution are as a contribution and the contribution are as a contribution and the contribution and the contribution are as a contribution and the contribution are as a contribution and the contribution are as a contribution and the contribution are as a contribution and the contribution and the contribution are as a contribution and the contribution are as a contribution and the contribution are as a contribution and the contribution are as a contribution and the contribution and the contribution are as a contribution and the contribution and the contribution are as a contribution and the contribution and the contribution are as a contribution and the cont	Figure Statistics of the Result (see Scientist of the Result) (a) 54 54 54 54 54 54 54 54 54 54 54 54 54	Grants for Acquisition of Assets	2000	3000							0 [0 8	0 8	0 8	0 ;	0 8	0 8	0 8	0 8	0 ;	0 8	0 8	0 8	0 8	•	0 9	0 0
tions 323 323 323 323 323 323 323 323 323 32	tions 323 323 323 323 323 323 323 323 323 32	Pensioner Rebate Subsidy	42	4 0	,	94 0					37	98 0	32	32	8 c	33	33	35	35	۳ ج	စ္က ဇ	စ္က ဇ	53	59		8 0	
thons the state of	tions 323 323 323 323 323 323 323 323 323 32	Other Grants		•		,						•	•		Þ	Þ	•	o	•	o	•	•	•	•		•	
323 323 323 323 323 323 323 323 323 323	323 323 323 323 323 323 323 323 323 323	Contributions	323	323								323	323	323	323	323	323	323	323	323	323	323	323	323	• •	323	
Contributions 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Depart Provided Asserts 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Developer Charges	323	323								323	323	323	323	323	323	323	323	323	323	323	323	323	(-)	323	323 323
Contributions 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Contributions 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	Developer Provided Assets	0	0							0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	
FEVENUES 1037 11332 10276 8219 8225 8279 8328 8375 8430 8475 8534 8689 8735 8797 8843 8888 8939 8994 9055 9108 9160 9223 3 3365 3566 2292 -8 -157 -375 -481 -517 -636 -773 -677 -534 -464 -400 -351 -307 -216 -205 -205 -136 -112 -34 118 RESULT (Noss Grants for Act of 1365 586 292 -8 -157 -375 -481 -517 -636 -733 -677 -534 -464 -400 -351 -307 -216 -205 -205 -136 -112 -34	FEVENUES 10397 11332 10276 8219 8225 8279 8328 8375 8430 8475 8534 8689 8735 8797 8843 8888 8939 8994 9055 9108 9160 9223 3 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	Other Contributions	0	0							0	0	9	9	0	0	0	0	0	9	0	0	0	0		0	
3365 3586 2292 -8 -157 -375 -481 -517 -636 -733 -677 -534 -464 -400 -351 -307 -216 -205 -205 -136 -112 -112 -1136 -126 -136 -112 -126 -126 -136 -112	ING RESULT 3365 3586 2292 -8 -157 -375 -481 -517 -636 -733 -677 -534 -464 -400 -351 -307 -216 -205 -205 -136 -112 ING RESULT (less Grants for Acq of 1365 586 292 -8 -157 -375 -481 -517 -636 -733 -677 -534 -464 -400 -351 -307 -216 -205 -205 -136 -112	TOTAL REVENUES	10397	11332							8430	8475	8534	8689	8735	8797	8843	8888	8939	8994	9055	9108	9160	9223	6	9260	260 9319
1365 586 292 -8 -157 -375 -481 -517 -636 -733 -677 -534 -464 -400 -351 -307 -216 -205 -205 -136 -112	ING RESULT (less Grants for Acq of 1365 586 292 -8 -157 -375 -481 -517 -636 -733 -677 -534 -464 -400 -351 -307 -216 -205 -205 -136 -112	OPERATING RESULT	3365	3586		٣				-517	-636	-733	-677	-534	-464	-400	-351	-307	-216	-205	-205	-136	-112	-34		7	21 86
	Assets)	OPERATING RESULT (less Grants for Acq of	1365	586		٣				-517	-636	-733	-677	-534	-464	-400	-351	-307	-216	-205	-205	-136	-112	-34		7	

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SMRC Sewerage: SMRC Sewerage Base Case

FINMOD WaterOz

Cashflow Statement

	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27	2027/28 2	2028/29 20	2029/30 203	2030/31 203	2031/32 203	2032/33 203	2033/34 203	2034/35 2035/36	5/36 2036/37	3/37 2037/38	38 2038/39	39 2039/40	0 2040/41	2041/42	2042/43	
Cashriow From Operating Activities Receipts.																									
Rates and Charges	7448	7504	7558	2092	7658	7713	7770	7822	7878	7927	7981	8035	8085		8195		-	-			~				_
Interest Income	434	312	202	97	51	50	41	34	8 9	98	35	0 5	36		33										
Other Revenues	2043	101	201	50	<u>4</u> 6	200	8	200	2 2	60	001	101	791		4 6										
Contributions	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323	323 3	323 33	323 323	3 323	323	323	
Total Receipts from Operations	10397	11332	10276	8219	8225	8279	8328	8375	8430	8475	8534	8594	8640	-	8748	-			-	-	0,	-	-	-	
Payments																									
Management	921	974	626	986	992	666	1005	1011	1017	1024	1030	1036	1042	1049	1055	1061	1068 1	1075 10	1081 10	1087 10	1093 1100	0 1106		1118	_
Operations (plus WC Inc)	3606	4159	4295	4323	4282	4305	4332	4359	4385	4410	4437	4463	4489												_
Interest Expenses Other Expenses	0 0	0 0	0 0	108	243	431	473	60g	604 0	929	674	654	209										193		
Total Payments from Operations	4527	5133	5274	5417	5516	5735	5810	5880	9009	0609	6142	6153	6137	6124	6109	96092	6081	6095 61	6132 61	6117 613	6125 6110	0 6093		6074	
Net Cash from Operations	5870	6199	5002	2803	2709	2544	2518	2495	2424	2385	2392	2441	2503	2578	2639	2697	2763	2803 28	2828 28	2896 29	2940 3017	7 3072	3142	3209	
Cashflow from Capital Activities																									
Casimow Hom Capital Activities																									
Receipts Proceeds from Disposal of Assets	167	68	146	73	28	128	175	0	92	104	36	92	95	92	95	95	95	92	95	92	62	95	95	95	
Payments	į	3	2		1	1	:	•	3		3	3	3	3	3	3	3	3	3						
Acquisition of Assets	0906	10300	8490	6296	2699	7804	4360	3631	5107	4417	2519												1835		
Net Cash from Capital Activities	-8893	-10212	-8345	-9605	-5671	-7675	-4185	-3631	-5011	-4313	-2483	-2220	- 1907	-1922	-1313	-2287	-1883	-2200 -28	-2869 -19	-1900 -2478	78 -1752	2 -2272		-2127	
; ;																									
CashFlow from Financing Activities																									
<u>Receipts</u> New Loans Required	0	0	0	2786	3624	5303	1725	1683	3283	2402	1562	762	0	0	0	0	0	657 12	1282	9 0	610	0	0	0	
Payments		,		,									!												
Principal Loan Payments Net Cash from Financing Activities	1428 -1 428	o o	o o	94 2692	217 3406	400 4904	462 1262	527 1155	646 2637	736 1666	798 764	836 -74	847 -847	860 -860	872 -872	884 -884	968 968-	933 g	986 296 -9	999 10	1036 1052 - 425 -1052	2 1066 2 -1066	955	808 808	
TOTAL NET CASH	-4451	-4013	-3343	-4111	444	-228	-404	19	49	-261	673	147	-251	-204	454	-474	-15	327	256	4	36 214	4 -266	447	274	
Current Year Cash	-4451 18436	-4013	-3343	-4126	444	-228	-404	1413	1308	-261	673	147	-251	-205	455	-474	-15			. 4	36 214	1809	1506		
Cash & Investments @Year End	13985	9631	6054	1780	2181	1899	1449	1433	1447	1151	1796	1899	1602	1358	1780			1514 17	1733 16	-	-	•	-	2179	
O to the Manie of the Mines																									
Integral Funding for New Works (6000)	1640	2450	1454	0.3450	043	003	4000	099	047	200	5	246	000		2	440									
Internal Funding for Renewals	4502	4751	4509	2944	828 828	1044	426	1070	119	544	231	694	1425	1392	980 980	1652	36 1546	851 4	418 10	1028 8	810 1395	, 06 5 1924	1015	1763	. ~
New Loans	0	0	0	2786	3624	5303	1725	1683	3283	2402	1562	762	0		0	0									
Grants Total Capital Works	2000 8145	3000 9910	2000 7963	0 9179	0 5094	0 6849	0 3389	3313	0 4219	3338 3338	0 1912	0 1703	0 1628		1032				•		•	0 0 2 1992			
		:			!	:		:	!	;	!	!	ļ		!										

SMRC Sewerage: SMRC Sewerage Base Case

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Statement of Financial Position

					1							ı													
	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26	2026/27 2	2027/28 2	2028/29 2	2029/30 20	2030/31 20:	2031/32 203	2032/33 203	2033/34 203	2034/35 2035/36	/36 2036/37	37 2037/38	38 2038/39	39 2039/40	0 2040/41	2041/42	2042/43	
Cash and Investments Receivables	13985	9631	6054 3346	1780 3367	2181	1899 3410	1449 3431	1433 3453	1447 3474	1151 3495	1796 3516	1899 3538			. ,,		,		168 370	16 37	18E 37E	154 377	196 376	2179	
Inventories	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0		0	0	0	
Property, Plant & Equipment	82458	89894	95364	101991	104632	109226	110255	110714													-	-		97495	
System Assets (1) Plant & Equipment	79966 2492	87349 2544	92736 2628	99474 2517	102251 2381	107067 2158	107985 2270	108848 1866	110976 1539	112084	111590 .	110682 10 1261	109460 10 1286	1303 106	1308	105571 10 ² 1304 1	104311 103370 1325 1316	5	1292 101828 1292 1277	28 101142 77 1247	42 99727 47 1219	7 98832 9 1193	97398	96350	
Other Assets	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
TOTAL ASSETS	99745	102849	104763	107138	110201	114535	115135	115599	117436	118212	118148	117380 1	115906 11	114489 113	113115 11	111761 110	110498 109	109867 109801	108502	107803	3 106554	4 105342	104314	103490	
LIABILITIES																									
Bank Overdraft	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0 0	0	0	
Creditors	0	0	0	0	0	0	0	0	0	0	0													0	
Borrowings Provisions	00	0 0	0 0	2692 0	0033	10789	11788	12656 0	14984 0	16285 0	16652 0	0	14931 1 0	13706 12 0	12500 1 ⁻ 0	11311 10 0	10139 96 0	9617 96 0	9678 8443 0 0	43 7812 0 0	929	5343 0 0	4258	3346	
TOTAL LIABILITIES	c	c	c	2692	6033	10789	11788	12656	14984	16285	16652	16172	14931	13706 13	12500 1	11341 10	10139	9617 96	9678 8443	7812	6569	5343	4258	3346	
	•	•	•			3	3			3														3	
NET ASSETS COMMITTED	99745	102849	104763	104446	104168	103746	103346	102943	102451	101926	101496	101208 10	100976 10	100783 100	100615 100	100450 100	100359 100	100251 100123	23 100059	06666 69	90 99984	4 99999	100056	100144	
EQUITY																									
Accumulated Operating Result	96962	98183	98081	95680	93190	90542	87853	85193	82479	79734	77112	74697		70245 68	68181 66	66212 64		62606 60874		54 57697	97 56256	54904		52496	
ASSET REVAILATION RESERVE	2/83	4005	0083	8/81	5880	13218	8000	17763	18885	22205	24397		6 9/697				35988 376		59 40815		•		40414	4/65/	
TOTAL EQUITY	99745	102849	104763	104461	104183	103760	103360	102957	102464	101939	101509	101220 10	100988 10	100795 100	100626 100	100461 100	100369 100	100261 100133	33 100069	39 100000	99994	4 100008	100065	100153	
(1) Notes to System Assets Current Replacement Cost Less: Accumulated Depreciation Written Down Current Cost	147686 67720 79966	152845 65496 87349	156299 63563 92736	161749 62275 99474	164391 62140 102251	166892 59825 107067	168131 60145 107985	169692 60844 108848	172509 61533 110976	173901 61817 112084	175019 63429 111590	175265 17 64583 (175468 17 66008 6 109460 10	175718 175 67471 69 108247 106	175770 176 69346 70 106424 109	176125 176 70555 7 105571 10	176182 176251 71870 72881 104311 103370	251 176922 381 73834 370 103088	22 177515 134 75686 188 101828	15 177904 36 76762 28 101142	52 78253 42 99727	1 178049 3 79217 7 98832	178494 81096 97398	178578 82227 96350	

SMRC Sewerage : SMRC Sewerage Base Case Performance Indicators

FINMOD WaterOz

	2018/19	2019/20	2020/21	2021/22	2022/23	2023/24	2024/25	2025/26 20	2026/27 20	2027/28 20	2028/29 20	2029/30 20	2030/31 2031	2031/32 2032/33		2033/34 2034/35	1/35 2035/36	36 2036/37	7 2037/38	8 2038/39	9 2039/40	2040/41	2041/42	2042/43
Typical Residential Bills	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006	006 006	006 0	006 0	006 c	006	006	006
Average Residential Bills (2018/19\$)	889	890	890	890	890	890	891	891	891	891	891	892	892	892	892	892	893 86	892 893	3 893	3 893	3 894	893	894	894
Mgmnt Cost / Assessment (2018/19\$)	119	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125	125 12	125 125	5 125	5 125	5 125	125	125	125
OMA Cost per Assessment (2018/19\$)	572	646	099	629	651	651	651	650	651	650	651	650	029	650	650	650	649 65	650 650	0 650	0 650	099 0	649	649	650
Operating Sales Margin (%)	11.69	3.42	1.12	0.03	0.43	0.08	-0.59	-0.50	-0.78	-1.27	-0.45	0.92	1.22	1.37	1.46	1.50	2.04 1.8	1.88 1.88	8 2.12	2 2.11	1 2.33	2.54	2.67	2.92
Economic Real Rate of Return (%)	1.13	0.30	0.09	0.00	0.03	0.01	-0.04	-0.04	-0.06	-0.09	-0.03	0.07	0.10	0.11 0	0.12	0.12	0.17 0.1	0.16 0.16	6 0.19	9 0.19	9 0.21	0.23	0.25	0.28
Debt Service Ratio	0.17	0.00	0.00	0.02	90.0	0.10	0.11	0.12	0.15	0.16	0.17	0.17	0.17	0.16	0.16	0.15	0.15 0.1	0.15 0.15	5 0.15	5 0.15	5 0.15	0.14	0.12	0.10
Debt/Equity Ratio	0.00	0.00	0.00	0.03	90.0	0.10	0.11	0.12	0.15	0.16	0.16	0.16	0.15	0.14	0.12	0.11	0.10 0.1	0.10 0.10	0 0.08	8 0.08	8 0.07	0.05	0.04	0.03
Interest Cover	0.00	0.00	0.00	0.92	0.35	0.13	-0.02	-0.01	-0.05	-0.12	0.00	0.18	0.24	0.29	0.32 (0.34	0.49 0.4	0.49 0.50	0 0.62	2 0.67	7 0.88	1.09	1.44	2.00
Return on capital (%)	1.37	0.64	0.37	0.09	0.08	0.05	-0.01	-0.01	-0.03	-0.07	0.00	0.10	0.12	0.14	0.14 (0.14	0.19 0.1	0.18 0.18	8 0.21	1 0.21	1 0.24	0.25	0.27	0:30
Cash and Investments (2018/19\$'000)	14001	9647	6909	1810	2210	1928	1476	1460	1473	1176	1821	1924	1625 1	1382 1	1803 1	1285 1	1238 153	1535 1754	4 1707	7 1701	1 1874	1562	1970	2197
Debt outstanding (2016/19\$'000)	0	0	0	2692	6033	10789	11788	12656	14984	16285	16652	16172 1	14931 13	13706 12	12500 11	11311 10	10139 9617	17 9678	8 8443	3 7812	2 6569	5343	4258	3346
Net Debt (2018/19\$'000)	0	0	0	882	3823	8861	10312	11196	13511	15109	14831	14248 1	13306 12	12324 10	10697 10	10026 8	8901 8082	82 7924	4 6736	6 6111	1 4695	3781	2288	1149